SIEMENS

# ISDN S0 Analyzer K1403
## PC-Remote Control Software

**User Manual**

Version July 1994

C73000-G6076-C45

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C73000-X6076-C5-1

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*Please help us to improve our products. If you think, there's anything missing,or if you have any requests, please send the attached sheet to your local representative located nearest to your office and ask him to forward it to SIEMENS Berlin, AUT3 MWB KQP, Germany as soon as possible.*

For every error report we need the following information to find a solution as soon as possible:

- ☞ version number of the operating system and application software,
- ☞ detailed description of the error,
- ☞ list of commands typed in before the error occured,
- ☞ hardcopy of the screen when the error occured.

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To
Local Siemens Sales Office

Repeat order for device:

MLFB-No. 7KK1403- _ _ _ _ _

(Machine-readable product desigination No.)

Serial Nr. BF _ _ _ _ - _ _

(see rating plate on rear of device)

The following products are ordered:

| Item |
| --- |
| 1 |
| |
| 2 |
| |
| 3 |
| |
| 4 |
| |

# Customer Report

# ISDN $S_0$ Analyzer K1403

**To**

Siemens AG
ANL A425 KRK
Siemensallee 84

D-76181 Karlsruhe

Tel.: 0721-595 44 75 / 595 67 04
Fax: 0 30-595 66 30

Tx
Ttx

**From**

_____

_____

_____

_____

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Tel.:
Fax:

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Ttx

**Suggestions, Reports, Improvements:**

.....

.....

.....

.....

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.....

# Customer Report — ISDN $S_0$ Analyzer K1403

**Soft- and Hardware used for test:**

Application: _____ K1403-Type: _____

Version: _____ Serial-No.: _____

Options: _____

**Test Configuration:**

☐ K1403 for monitoring

☐ K1403 for emulation/simulation as ☐ TE ☐ NT

Test environment: ☐ to another K1403

☐ other Printer: _____

_____

_____

**Error Description:**

.....

.....

.....

.....

.....

.....

.....

.....

.....

The error occurs: ☐ always ☐ sometimes

**Encloses:**

☐ Floppy Disk

☐ Testscript-Listing

☐ Hardcopy/Printout

☐ other:

**Date:** **Signature:**

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|---|---|
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AUT3 MWB KQP
**D–13623 Berlin**

C73000–Y6076–C16–.1

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# ISDN $S_0$ Analyzer K1403
# PC-Remote Control Software

User Manual

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# ISDN-$S_0$-Analyzer K1403
# PC-Remote Control Software

7KK1403-6AA11

User Manual | Order No.: C73000-M6076-C5-1

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# Contents


Page

**1 Scope of Performance of the PC-Remote Control Software ..... 1-1**

**2 Notes on the User Manual ..... 2-1**

**3 Required System Configuration and Equipment ..... 3-1**

**4 Installing the PC-Remote Control Software ..... 4-1**

4.1 Start-up of the PC-Remote Control Software ..... 4-5

**5 Description of Menus and User Interface ..... 5-1**

5.1 File Menu ..... 5-1
5.1.1 Configuration (File) ..... 5-1
5.1.2 End (File) ..... 5-3
5.1.3 Via K1403 Control (File) ..... 5-3

5.2 Measurements Menu ..... 5-4
5.2.1 Transfer from K1403 (Measurements) ..... 5-4
5.2.2 User Definition (Measurements) ..... 5-4
5.2.3 Load CTS2 ISDN (Measurements) ..... 5-9
5.2.4 Load User Definition (Measurements) ..... 5-10
5.2.5 Save User Definition (Measurements) ..... 5-10
5.2.6 Save as User Definition (Measurements) ..... 5-11
5.2.7 Delete User Definition (Measurements) ..... 5-11

5.3 Artificial Line Menu ..... 5-12
5.3.1 Transfer from K1403 (Artificial Line) ..... 5-12
5.3.2 Define (Artificial Line) ..... 5-12
5.3.3 Load (Artificial Line) ..... 5-13
5.3.4 Save (Artificial Line) ..... 5-13
5.3.5 Save as (Artificial Line) ..... 5-14
5.3.6 Delete (Artificial Line) ..... 5-14

5.4 Test Suite Menu ..... 5-15
5.4.1 Transfer from K1403 (Test Suite) ..... 5-15
5.4.2 Define (Test Suite) ..... 5-15
5.4.3 Load (Test Suite) ..... 5-16
5.4.4 Save (Test Suite) ..... 5-16
5.4.5 Save as (Test Suite) ..... 5-16
5.4.6 Delete (Test Suite) ..... 5-16

5.5 Test Sequence Menu ..... 5-17
5.5.1 CTS2 ISDN Test Sequence (Test Sequence) ..... 5-17
5.5.2 User Definition Test Sequence (Test sequence) ..... 5-20
5.5.3 Save CTS2 ISDN (Test sequence) ..... 5-22

5.5.4 Save as CTS2 ISDN (Test Sequence) ... 5-22
5.5.5 Save Test Sequence (Test Sequence) ... 5-22
5.5.6 Save as Test Sequence (Test sequence) ... 5-23
5.5.7 Load CTS2 ISDN Test Sequence (Test Sequence) ... 5-23
5.5.8 Load User Test Sequence (Test Sequence) ... 5-23
5.5.9 Delete CTS2-ISDN (Test Sequence) ... 5-23
5.5.10 Delete User Test Sequence (Test Sequence) ... 5-24

5.6 Execution Menu ... 5-24
5.6.1 Test Sequence (Execution) ... 5-24
5.6.2 Aritficial Line (Execution) ... 5-24

**6 Help ... 6-1**

6.1 INDEX (Help) ... 6-1

**7 Example for Application ... 7-3**

7.1 Programming measurements ... 7-3

7.2 Creation of Measurement Sequence ... 7-6

7.3 Start Measurement Sequence ... 7-7
7.3.1 Stop Measurement Sequence ... 7-8

7.4 The Results Protocol ... 7-9
7.4.1 Header and Footer ... 7-9
7.4.2 Protocol Head and Measurement Results ... 7-9

**8 Status Information and Error Messages ... 8-1**

8.1 Messages in English ... 8-1

8.2 Corresponding Messages in German ... 8-9

**9 Appendix ... 9-1**

9.1 Protocol example ... 9-1

# 1 Scope of Performance of the PC-Remote Control Software

The PC-Remote Control Software is designed for easy remote control of the K1403 over the IEC-interface (IEEE 488.2). It is operated as an MS-WINDOWS application.

All settings of the K1403 can be edited, saved, combined with already existing measurement definitions (e.g. according to CTS2) as well as linked together to form measurement sequence.

The measurement results gained in the automatic sequence as well as setting parameters, comments and many other selectable data are summarized in a protocol which is generated automatically via MS-WINWORD 2.0 (or higher). The protocol files can be saved as *.doc files or printed on any printer supported by MS-WINDOWS.

Note: The PC-Remote Control Software cannot be run on a network.

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# 2 Notes on the User Manual

This User Manual explains all menus and operating characteristics as well as their applications.

After describing the installation below, system start-up and the user interface are explained in full. In Chapter 7, you are guided through a detailed example to illustrate in depth the utilization of the software in combination with the ISDN-$S_0$-Analyzer K1403. The generation of protocols is also described extensively in various examples.

Chapter 8 contains a list of all relevant error messages. A detailed description of the IEC interface and a table of all unit setting parameters of the K1403 can be found in Chapter 5 of the Operating Manual.

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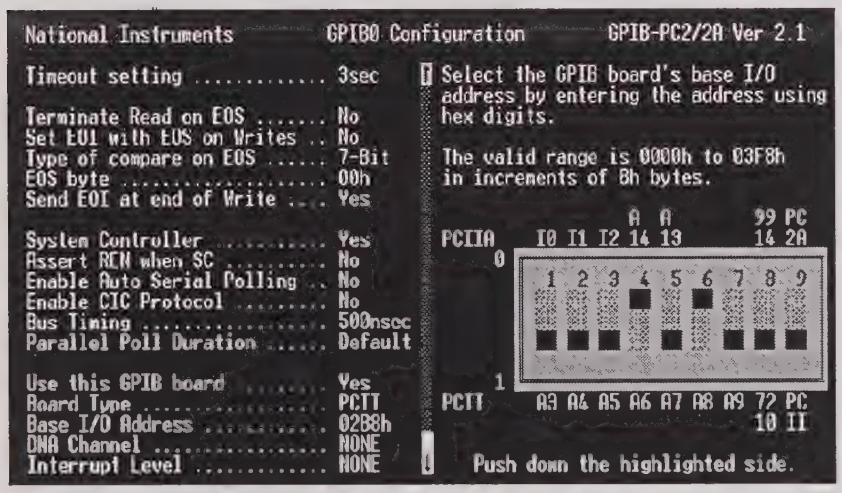
# 3 Required System Configuration and Equipment

In order to install the PC-Remote Control Software, at least the following system configuration and equipment is required:

- Personal computer AT386/25MHz
- VGA graphics screen or display and driver
- 4 MB user memory (RAM)
- 3 MB program memory (hard disk)
- Mouse and keyboard
- IEC interface from NATIONAL INSTRUMENTS type GPIB PCII/IIA
- MS-DOS 5.0
- MS-WINDOWS 3.1
- MS-WORD for WINDOWS 2.0

### Installation of the IEC bus interface PC IIA

The interface should be installed on the PC according to the instructions of National Instruments either under DOS 5.0 or Windows 3.1. When using the installation software IBCONF.EXE (DOS 5.0) or WIBCONF.EXE (Windows 3.1), the interface is parameterized as follows:


National Instruments GPIB0 Configuration GPIB-PC2/2A Ver 2.1
Timeout setting ..... 3sec
Terminate Read on EOS ..... No
Set EOI with EOS on Writes .. No
Type of compare on EOS ..... 7-Bit
EOS byte ..... 00h
Send EOI at end of Write .... Yes
System Controller ..... Yes
Assert REN when SC ..... No
Enable Auto Serial Polling .. No
Enable CIC Protocol ..... No
Bus Timing ..... 500nsec
Parallel Poll Duration ..... Default
Use this GPIB board ..... Yes
Board Type ..... PCII
Base I/O Address ..... 02B8h
DMA Channel ..... NONE
Interrupt Level ..... NONE
Select the GPIB board's base I/O address by entering the address using hex digits.
The valid range is 0000h to 03F8h in increments of 8h bytes.
PCIIA
I0 I1 I2 A14 A13
99 PC 14 2A
0
1 2 3 4 5 6 7 8 9
1
PCII
A3 A4 A5 A6 A7 A8 A9 72 PC 10 11
Push down the highlighted side.

The DMA channel can remain set to NONE. Choose the interrupt level so that it does not interfere with other installations on the PC (e.g. interrupt level 5).

In order to ensure proper functioning of the interface, its settings can be checked and tested using the program IBDIAG.EXE (DOS 5.0) or WIBDIAG.EXE (Windows 3.1).

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# 4 Installing the PC-Remote Control Software

The following functions are supplied on three diskettes:

| | | |
|---|---|---|
| Diskette 1 | Application software | Installation program<br>german.exe<br>english.exe |
| Diskette 2 | Data bank | Test specifications according to CTS2 with CTS2 numbering plan |
| Diskette 3 | Application extension | Extension of the software with control of the tests according to CTS2 Appendix B2. |

Insert diskette 1 in your disk drive and start installation by using the command

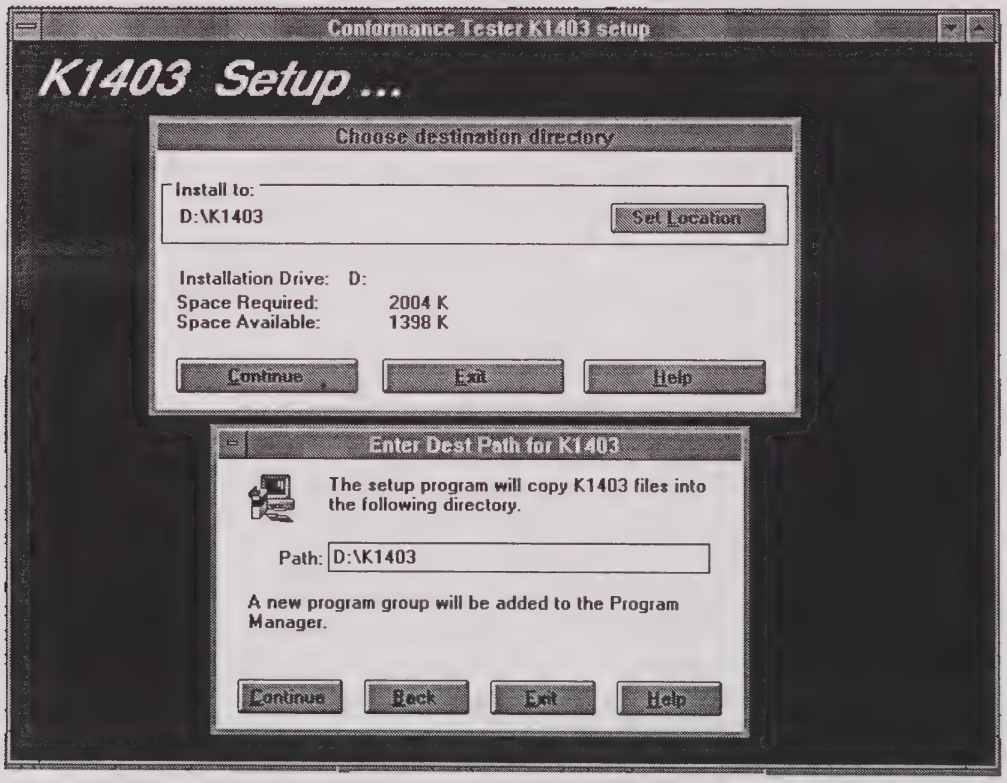
FILE EXECUTE and entering a:\english

The installation process has now started. User guidance is in English.

For the operation of the remote control software itself, you can switch between English and German at any time even during operation (see FILE CONFIGURATION).

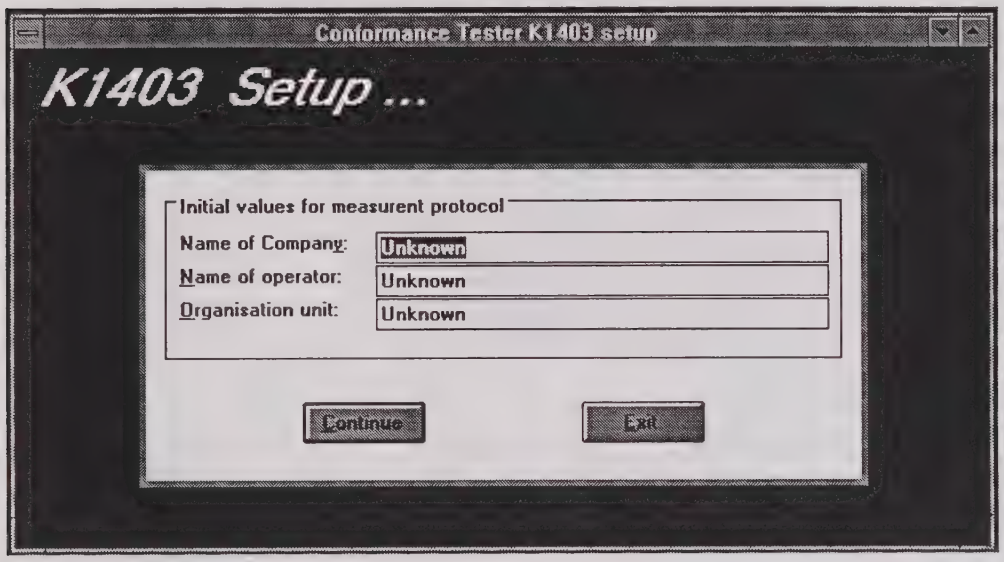
The first display on the screen is:

After clicking OK, the destination catalog can be set in the following display:

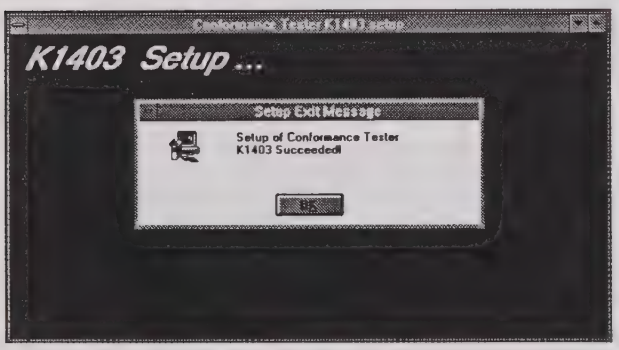


The lower window is activated after clicking SET CATALOG. The required and the available memory in the designated catalog is displayed.

After clicking OK, user data for the measurement protocol can be entered. These data can be modified or added at any time during the application (see menu FILE CONFIGURATION).




During installation, a [%] display indicates the progress of data expansion on each diskette. A request appears automatically, when the next diskette is to be inserted. At the end of installation, the following display appears:



Now the destination catalog includes the following files:

| File name | Description |
|---|---|
| msanwd0a.bts | Data bank file for user measurement definitions |
| msnorm0a.bts | Data bank file for CTS2 measurement definitions |
| mstean0a.bts | Data bank file for user test sequences |
| mstenm0a.bts | Data bank file for CTS2 test sequences |
| mssuit0a.bts | Data bank file for test suite parameters )* |
| msltnb0a.bts | Data bank file for parameters of the isolated )* artificial line |
| pckonf0a.bts | Remote control configuration file |
| iec_niec.dll | Remote control system file |
| k1403_b2.dll | Remote control system file )**** |
| wbtrcall.dll | Remote control system file |
| makeprot.dot | WinWord macro |
| strtprot.dot | WinWord macro |
| K1403.exe | Executable remote control program |
| K1403deu.hlp | Help file German |
| k1403eng.hlp | Help file English |
| results.txt | Temporary results file )** |
| trace.dat | Temporary results file )*** |
| prhdeng.doc | Protocol header English |
| prhdger.doc | Protocol header German |
| tmpprot.doc | Results protocol)** |

)* Files are created after being saved for the first time during the application.

)** Files are generated during each test sequence

)*** File is generated/created during TTCN tests

)**** This file is created when installing the third diskette. If it is not available, an error message will appear when loading/executing CTS2 settings according to APPENDIX B2.

*Note:* The files **msnorma0.bts**, **mstenm0a.bts**, which are included in the scope of supply, contain suggestions for measurement definitions and sequences for CTS2 tests. The files **msanwd0a.bts** and **mstean0a.bts** are suggestions for measurement definitions and corresponding test sequences for 60 tests of the jitter measurement (electrical characteristics, not acording to CTS2).
These files are to be understood as suggestions and are not subject to the software warranty.

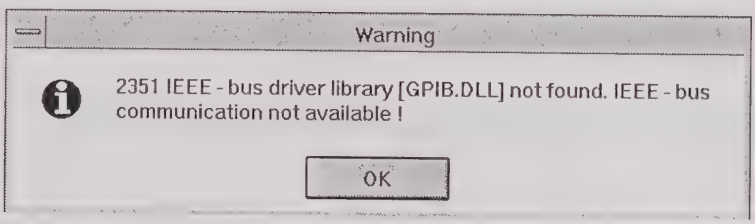
The CTS2 measurement definitions cannot be modified in the application. This restriction can be circumvented by renaming the file **msnorma0.bts** to **msanwd0.bts** (after saving the old file). The desired changes can be entered via the menu item "Load user definition" and "Save user definition". If the file is renamed **msnorma0.bts** afterwards, it can no longer be modified in the application.

## 4.1 Start-up of the PC-Remote Control Software

**Note:**
- The PC-Remote Control Software should not be started until the basic menu is displayed on the K1403 after switch-on.
- While the PC-Remote Control Software is running, no manual settings should take place on the K1403, since it is possible that the connection between settings in the unit and in the PC-Remote Control Software is lost.

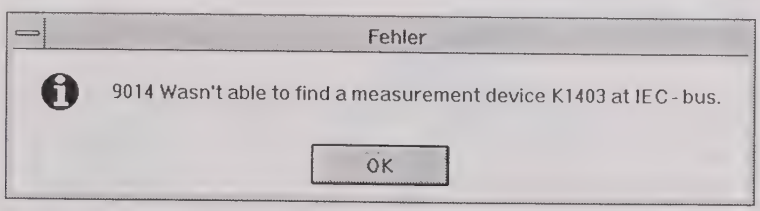
The WINDOWS application "PC-Remote Control Software" for K1403 is started by double-clicking the icon on your WINDOWS display.

If no acknowledgement from the K1403 has been received when the application was started, the following error message appears. Please check, whether your PC is equipped with the required IEC interface card NATIONAL INSTRUMENTS PCIIA, and whether it is correctly installed with the NATIONAL INSTRUMENTS installation software. All relevant error messages are described in detail in the appendix.



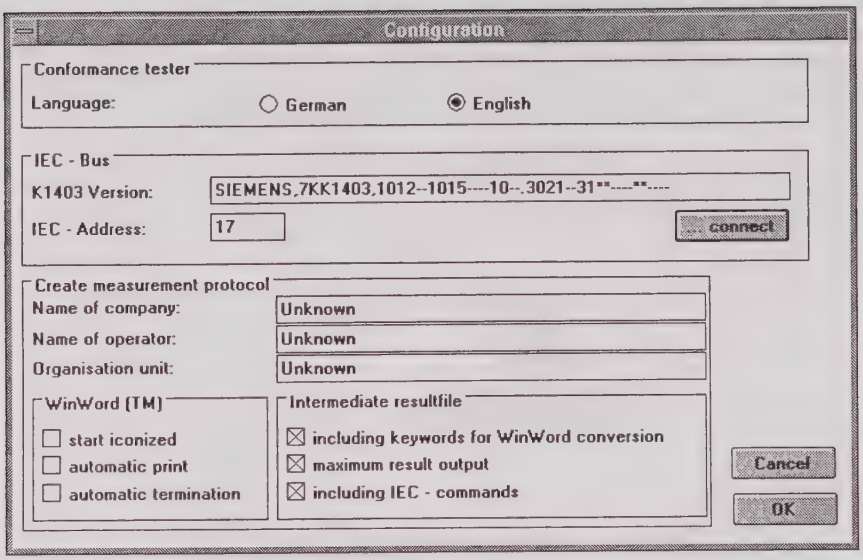

Restart the application. The connection to the K1403 takes place automatically. After this the application changes to the basic menu, which is described below (Chapter **MENU).**

If the connection cannot take place, the following error message is displayed:



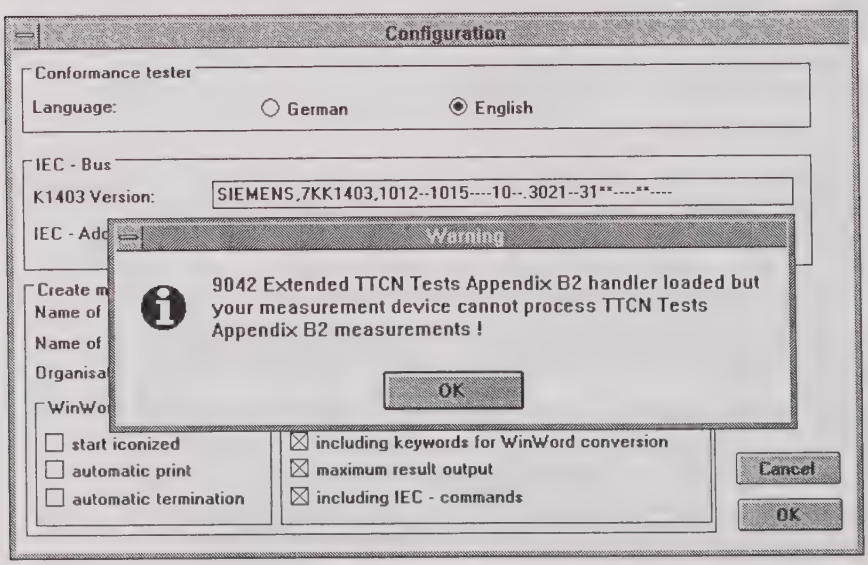

Please check whether your K1403 and your PC are properly connected. **Do not yet leave the application!!**

Then select the item **CONFIGURATION** in the menu **FILE** and click **CONNECT**. If the K1403 is recognized now, the complete version string and the IEC address are displayed in the configuration menu.




The following message appears if the K1403 addressed is not yet equipped with the software extension "TTCN tests according to CTS2 ISDN L1 Appendix B2". For further information, please contact a SIEMENS sales office near you.

The relevant part of the user interface remains disabled.



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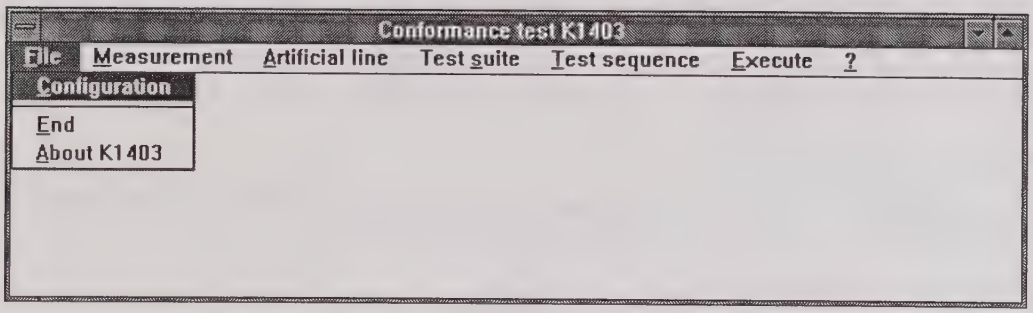
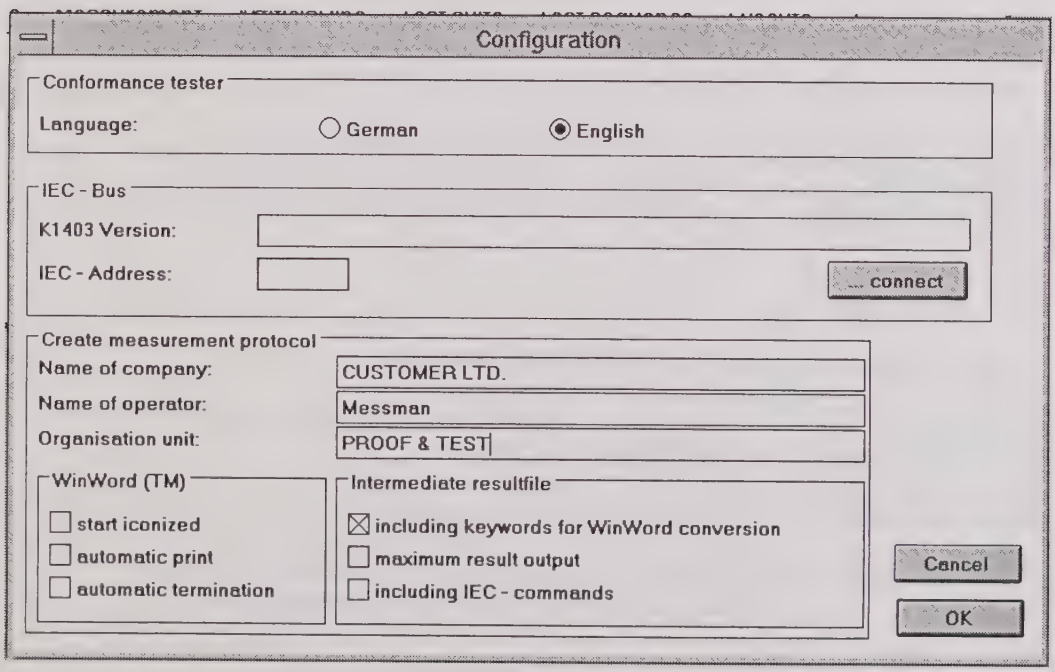
# 5 Description of Menus and User Interface

## 5.1 File Menu




### 5.1.1 Configuration (File)

In this display basic settings can be entered.



***Conformance tester:***

Select the language here.

***IEC - Bus:***

In order to connect the IEC bus to a specific unit, enter the IEC bus address and click **...connect**. If no address or -1 is entered for the IEC bus address, the conformance tester looks for a K1403 at the IEC bus. In this case the search runs from IEC bus address 1 to 31. The first unit found is connected and the search aborted.

***Create measurement protocol:***

Global settings for the creation of measurement protocols or measured data evaluation can be entered here.

- Name of company
- Name of operator
- Organisation unit

These data are automatically transferred to the measurement protocol if it is generated via WINWORD.

***WINWORD:***

These entries determine the display and operating mode of WinWord.

| | |
|---|---|
| ☒ start iconized | Only one icon appears during report generation. |
| ☒ automatic print | Printing occurs automatically after report generation |
| ☒ automatic termination | WINWORD is exited automatically after report generation |

***Temporary results file:***

These data influence the contents of the temporary results file.

| | |
|---|---|
| ☒ including keywords for WinWord conversion | The report is formated using predefined macros. Otherwise, only ASCII text is incorporated. |
| ☒ maximum result output | For graphic measurements, measured value tables are created. |
| ☒ including IEC commands | The setting command and all unit parameters used are documented in the report for each measurement. |

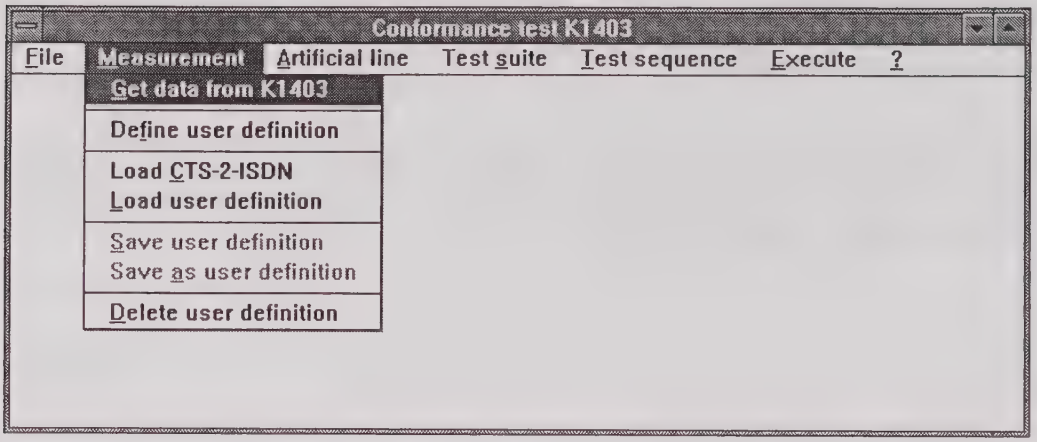
### 5.1.2 End (File)

The K1403 application is completed.

### 5.1.3 Via K1403 Control (File)

The version number of the K1403 application is displayed.

## 5.2 Measurements Menu



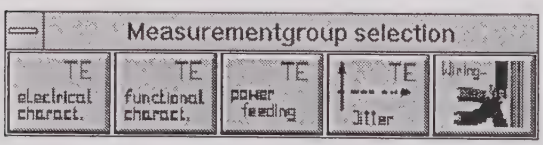

### 5.2.1 Transfer from K1403 (Measurements)

The current measurement settings (without Artificial Line and test suite settings) are transferred from the K1403 measurement device and displayed on the screen. The user can change this configuration or save it unaltered as a measurement definition under the menu item "Measurements/save as user definition".

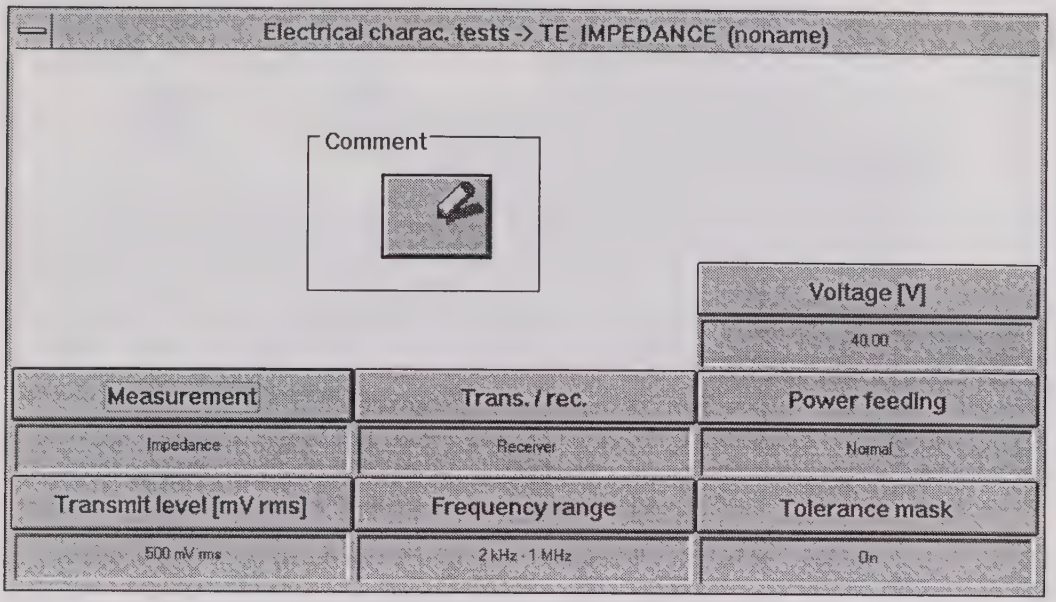
If the measurement "Artificial line" (isolated) is set in the basic menu of the measurement device, an error message is displayed.

### 5.2.2 User Definition (Measurements)

In this menu a large number of measurement types is available for selection by the user.




The measurements are combined in groups. After selecting one of the groups by clicking with the left mouse button, the first measurement of the group is displayed.



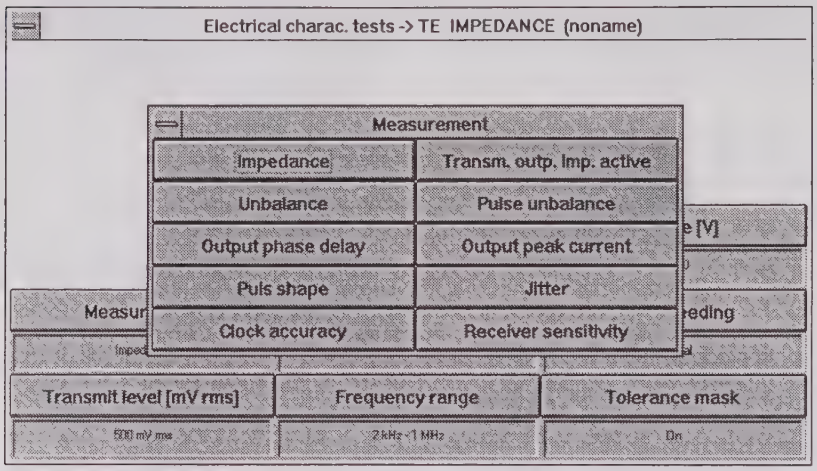

The user has the option to **define a measurement** with completely new settings.

The setting parameters correspond exactly to the ones of the measurement device. No invalid values can be entered, either because parameters are accepted from an already existing list, or because the value ranges are checked in the case of freely edited parameters. If parameters are interdependent, the corresponding buttons on the display are enabled or disabled.

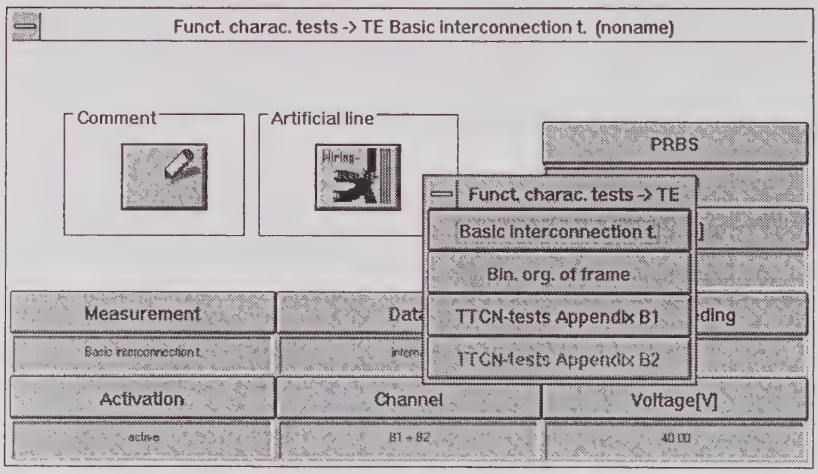
This is indicated by the color of the text in the button (black --> enabled / dimmed --> disabled).

In addition to the setting options available at the measurement device, the user can enter individual comments for each measurement by clicking "**Comment**".

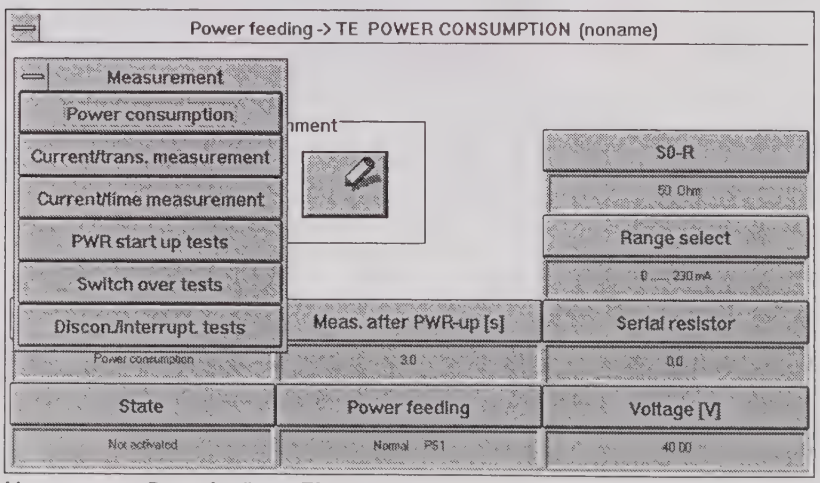
The following groups of measurement types are available:



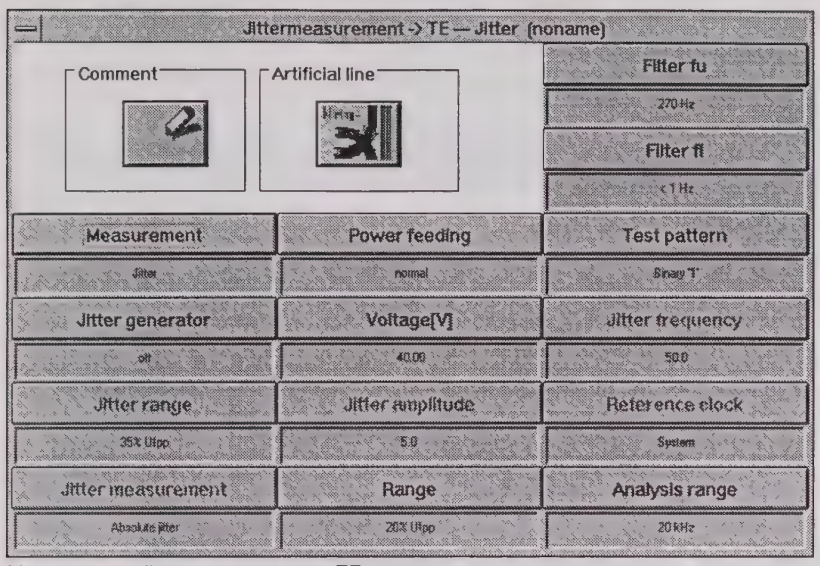

*Measurements: Electrical characteristics test at TE*



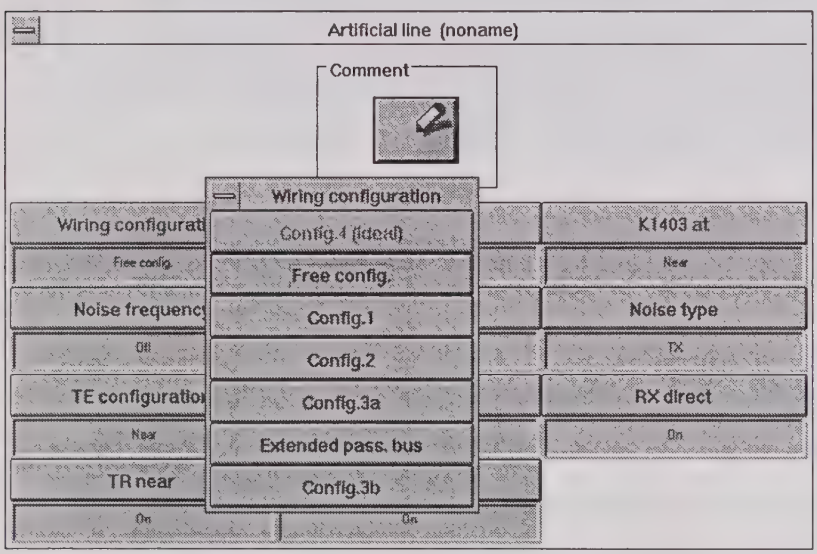

*Measurements: Functional characteristics test at TE*




*Measurements: Power feeding at TE*



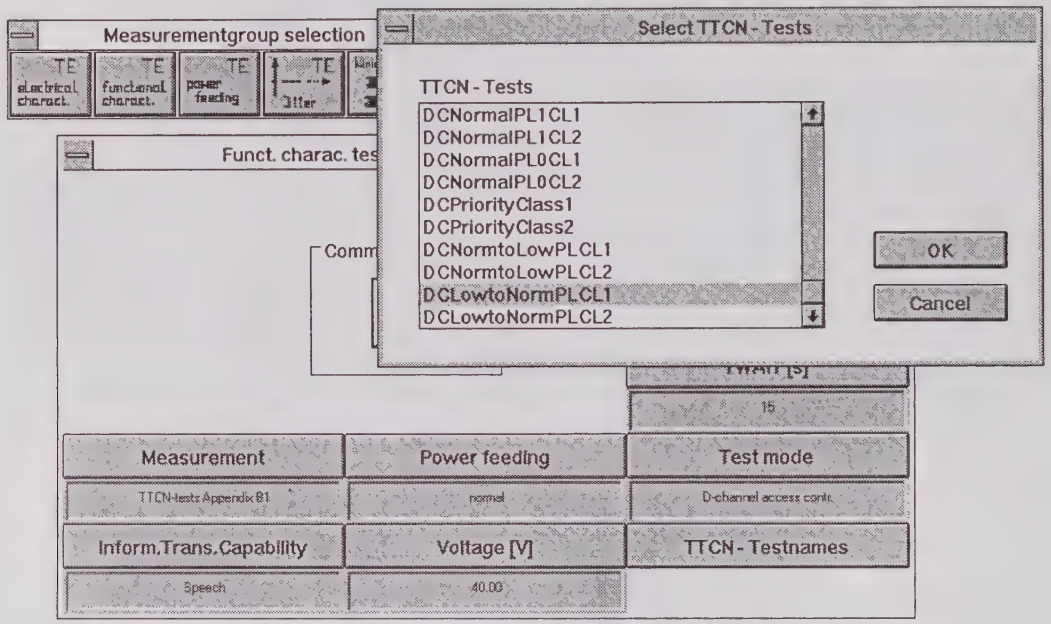

*Measurement: Jitter measurement at TE*




*Setting: Artificial line (isolated)*

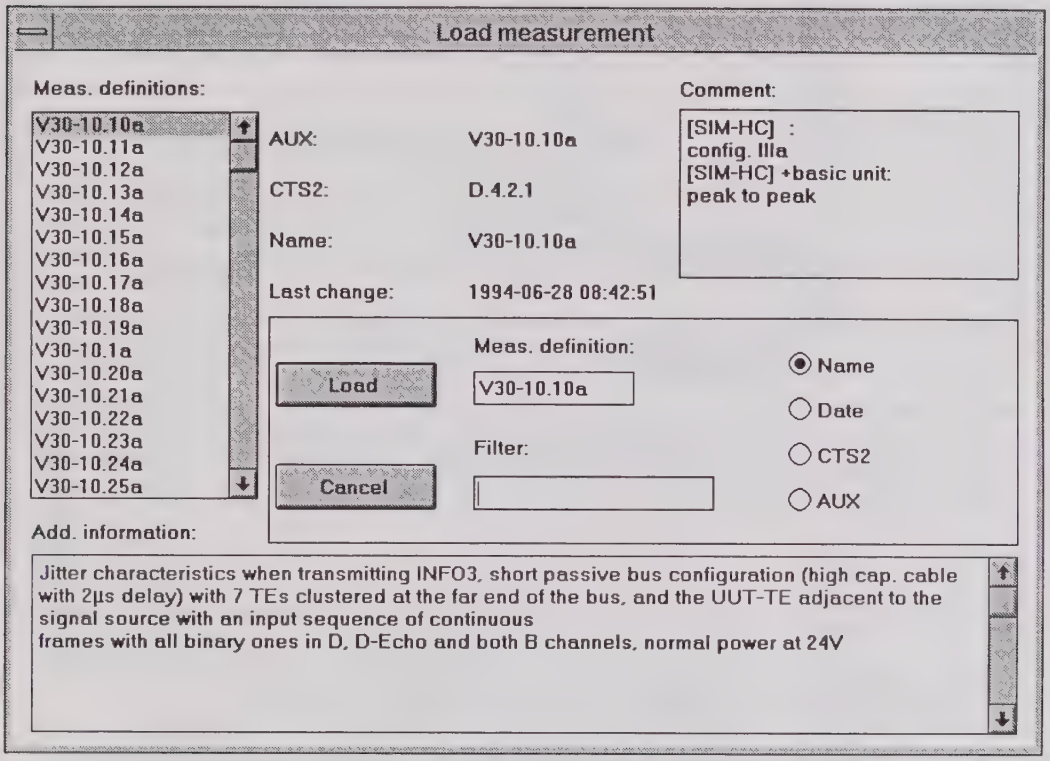
The artificial line setting (isolated) is independent of the artificial line setting in connection with a measurement setting (see Manual K1403 - Basic Unit and K1403 - Artificial Line).

Note that in the case of functional tests, a selection of individual tests to be executed can be called up by clicking TTCN TEST NAME. For each test group selected under TEST MODE, one test has already been preselected. If all tests are selected, only those are executed which are legal for the TEST SUITE parameters selected. Tests which have not been executed are marked DESELECTED in the protocol.



### 5.2.3 Load CTS2 ISDN (Measurements)

With this menu item a CTS2 ISDN data set can be loaded, i.e. a measurement setting which corresponds to a specific CTS2 measurement definition. These data sets are preset and can only be read in. They are designated according to the CTS2 numbering plan. The data sets can then be modified, however, as described under **MEASUREMENT USER DEFINITION** and saved as **USER DEFINITION**.



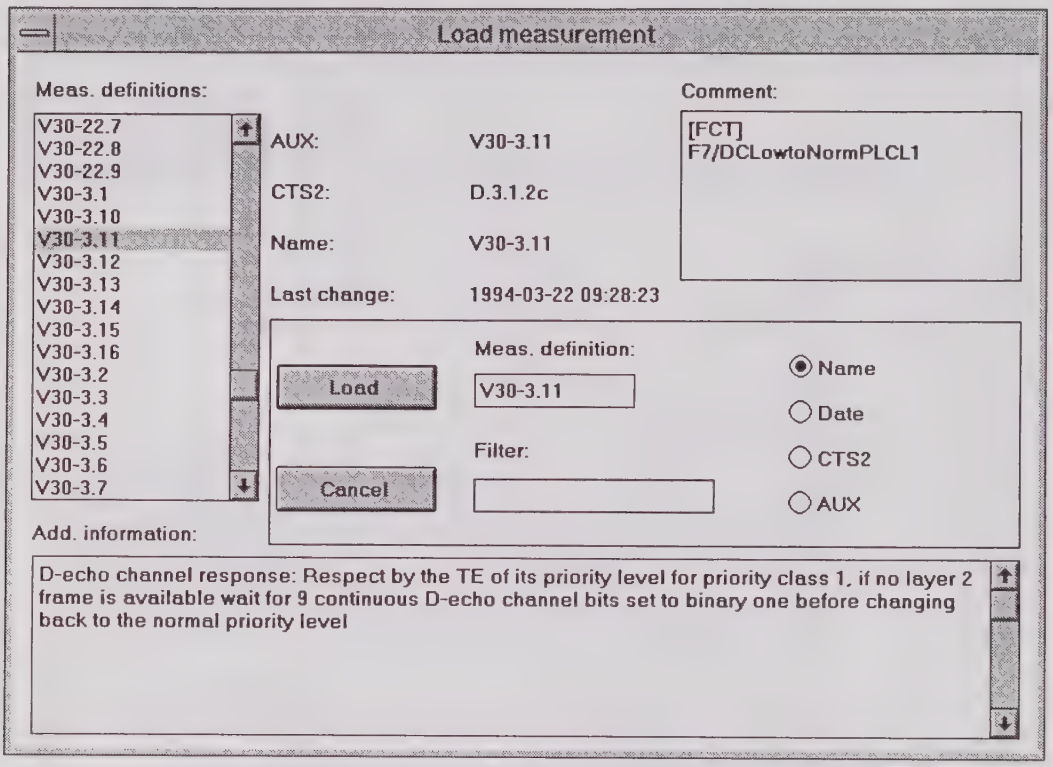

The function is only enabled when this CTS2 ISDN data bank has been found. A list of all saved CTS2 ISDN data sets is displayed for selection.
The designation of the CTS2 measurement definition corresponds to the table of the CTS2 tests (SIEMENS order no.: C73000-T6074-C53-X).

The displayed list can be sorted according to certain criteria by selecting the buttons **Name**, **Date**, **CTS2** and **AUX**. The inputs **CTS2** and **AUX** in the data bank are optional and not entered automatically.

If the list is very large, it is advisable to simplify the search for a specific data set by clicking **Filter.** The list is adapted or shortened according to the filter criterium entered in this field. The filter function always refers to the search parameter already set (**Name**, **Date**, **CTS2** or **AUX**).

### 5.2.4 Load User Definition (Measurements)

Under this menu item, a user data set may be loaded. The data set can then be modified as described under **MEASUREMENT USER DEFINITION**.




The function is enabled only if at least one user data set has already been saved in the data bank. A list of all user data sets previously saved is displayed for selection.

The displayed list can be sorted according to certain criteria by selecting the buttons **Name**, **Date**, **CTS2** and **AUX**. The inputs **CTS2** and **AUX** in the data bank are optional and not entered automatically.

If the list is very large, it is advisable to simplify the search for a specific data set by clicking **Filter.** The list is adapted or shortened according to the filter criterium entered in this field. The filter function always refers to the search parameter already set (**Name**, **Date**, **CTS2** or **AUX**).

### 5.2.5 Save User Definition (Measurements)

Under this menu item a previously loaded user data set can be saved.

This menu item is enabled only, if the user has already loaded a user data set. The modified data set is saved in the data bank under the same name under which it was previously loaded. If you want to save the data set under a new name, the menu function **Save as User Definition (MEASUREMENTS)** must be called up.

### 5.2.6 Save as User Definition (Measurements)

Under this menu item, a user data set can be saved under a new name.

In order to avoid any ambiguities, the user must choose a name which does not yet exist in the data bank. The name given appears in the current selection lists when loading or deleting a data set.

The menu item is enabled if the user has already loaded or newly defined a user data set. The data set displayed is saved under the new name in the data bank.

### 5.2.7 Delete User Definition (Measurements)

Under this menu item, a user data set in the data bank can be deleted.

**A user data set should only be deleted if it is no longer required for any test sequence!**

If a user data set is deleted anyway and the corresponding user definition is started in a **user test sequence**, an error message appears and the measurement is aborted.

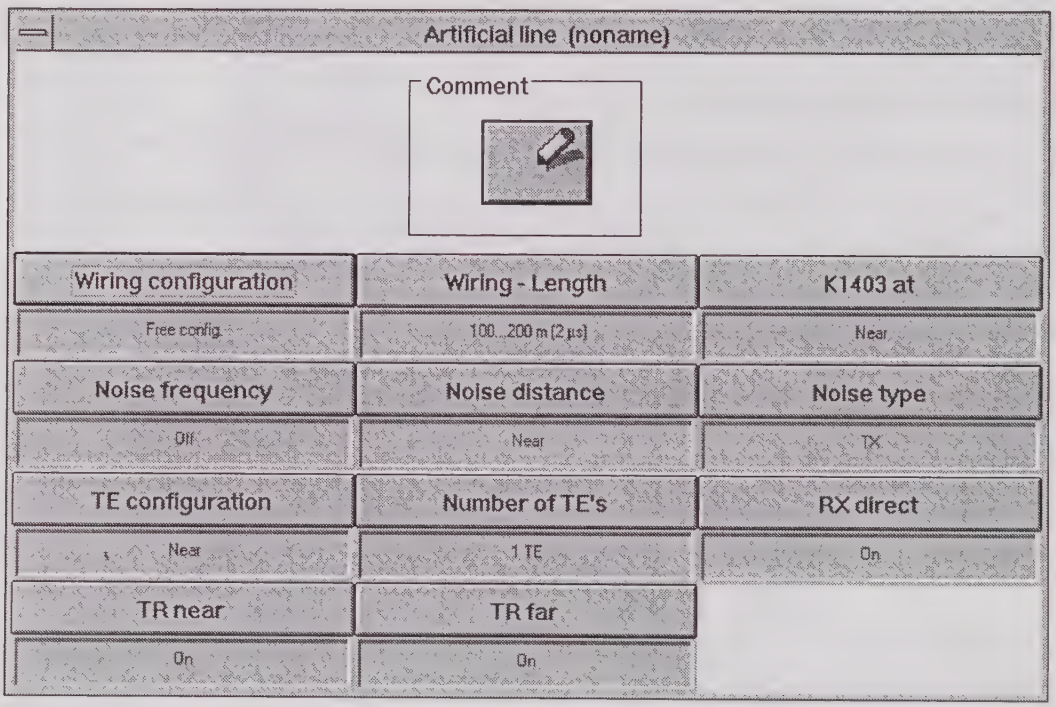
## 5.3 Artificial Line Menu

### 5.3.1 Transfer from K1403 (Artificial Line)

The current measurement setting of a Artificial Line is transferred from the K1403 measurement device and displayed on the screen. If a measurement is set at the measurement device, an error message appears.

### 5.3.2 Define (Artificial Line)

The user can define a Artificial Line with completely new settings.



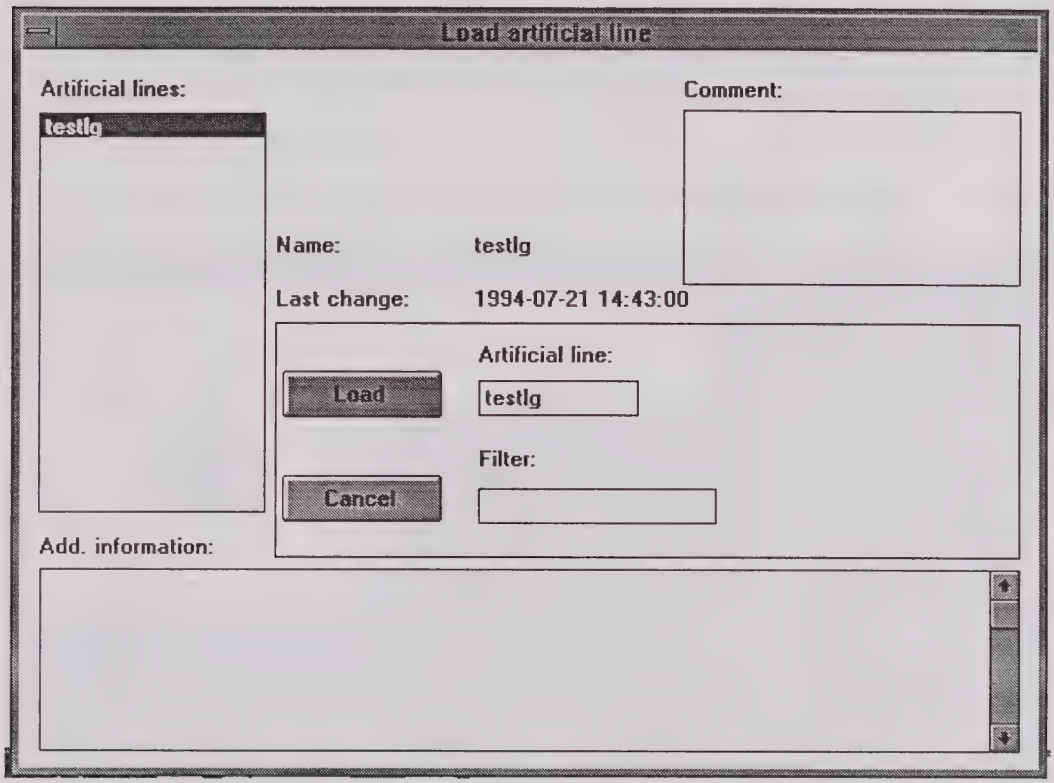

The setting parameters correspond exactly to the ones of the measurement device. No invalid values can be entered, either because parameters are accepted from an already existing list, or because the value ranges are checked in the case of freely edited parameters. If parameters are interdependent, the corresponding buttons are enabled or disabled.

This is indicated by the color of the text in the button (black --> enabled / dimmed --> disabled).

In addition to the setting options at the measurement device, the user can enter individual comments for each measurement by clicking "**Comment**".

### 5.3.3 Load (Artificial Line)

Under this menu item, a Artificial Line data set can be loaded. It can be modified as described under **Define (ARTIFICIAL LINE)**.




The function is enabled only if at least one Artificial Line data set has already been saved in the data bank. A list of all Artificial Line data sets previously saved is displayed for selection. The displayed list is sorted alphabetically.

If the list is very large, it is advisable to simplify the search for a specific data set by clicking **Filter.** The list is adapted or shortened according to the filter criterium entered in this field.

The setting of the option artificial line is described in more detail in the manual of the option C73000-B6000-C65.

### 5.3.4 Save (Artificial Line)

Under this menu item, a previously loaded Artificial Line data set can be saved.

This menu item is enabled only if a Artificial Line data set has already been loaded. The modified data set is saved in the data bank under the same name under which it was previously loaded. If you want to save the data set under a new name, call up the menu function **Save as (ARTIFICIAL LINE)**.

### 5.3.5 Save as (Artificial Line)

Under this menu item, a Artificial Line data set can be saved under a new name.

In order to avoid any ambiguities, the user must choose a name which does not yet exist in the data bank. The name given appears in the current selection list when loading or deleting a data set.

The menu item is enabled when the user has loaded or newly defined a Artificial Line data set. The data set displayed is saved under the new name in the data bank.

### 5.3.6 Delete (Artificial Line)

Under this menu item a Artificial Line data set in the data bank can be deleted.

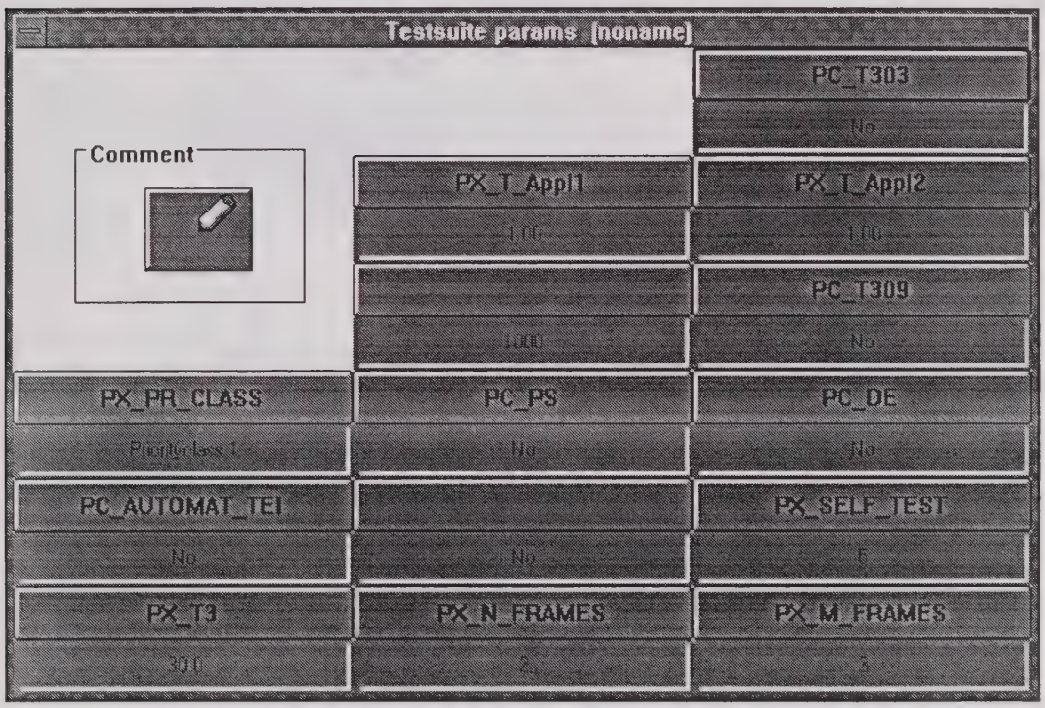
## 5.4 Test Suite Menu

### 5.4.1 Transfer from K1403 (Test Suite)

The current measurement setting of the test suite parameters is transferred from the K1403 measurement device and displayed on the screen. If a measurement which does not belong to this group is set on the measurement device, an error message appears.

### 5.4.2 Define (Test Suite)

The user can define new test suite parameters with completely new settings.




If parameters are interdependent, the corresponding buttons are enabled or disabled. This is indicated by the color of the text on the button (black --> enabled / dimmed --> disabled).

The selection of test suite parameters is described in more detail in the manual **Functional Tests Option K1403,** C73000-B6000-C57.

In addition to the setting options on the measurement device, the user can enter individual comments by clicking "**Comment**".

### 5.4.3 Load (Test Suite)

Under this menu item a test suite data set can be loaded.

The function is enabled only if at least one test suite data set has already been saved in the data bank. A list of all test suite data sets previously saved is displayed for selection.

The displayed list is sorted alphabetically.

If the list is very large, it is advisable to simplify the search for a specific data set by clicking **Filter.** The list is adapted or shortened according to the filter criterium entered in this field.

### 5.4.4 Save (Test Suite)

Under this menu item a previously loaded test suite data set can be saved.

This menu item is enabled only if at least one test suite data set has already been loaded in the data bank. The modified data set is saved in the data bank under the same name under which it was previously loaded. If you want to save the data set under a new name, call up the menu function **Save as (TEST SUITE)**.

### 5.4.5 Save as (Test Suite)

Under this menu item, a test suite data set can be saved under a new name.

In order to avoid any ambiguities, the user must choose a name which does not yet exist in the data bank. The name given appears in the current selection list when loading or deleting a data set.

The menu item is enabled if the user has already loaded or defined a user data set. The data set displayed is saved under the new name in the data bank.

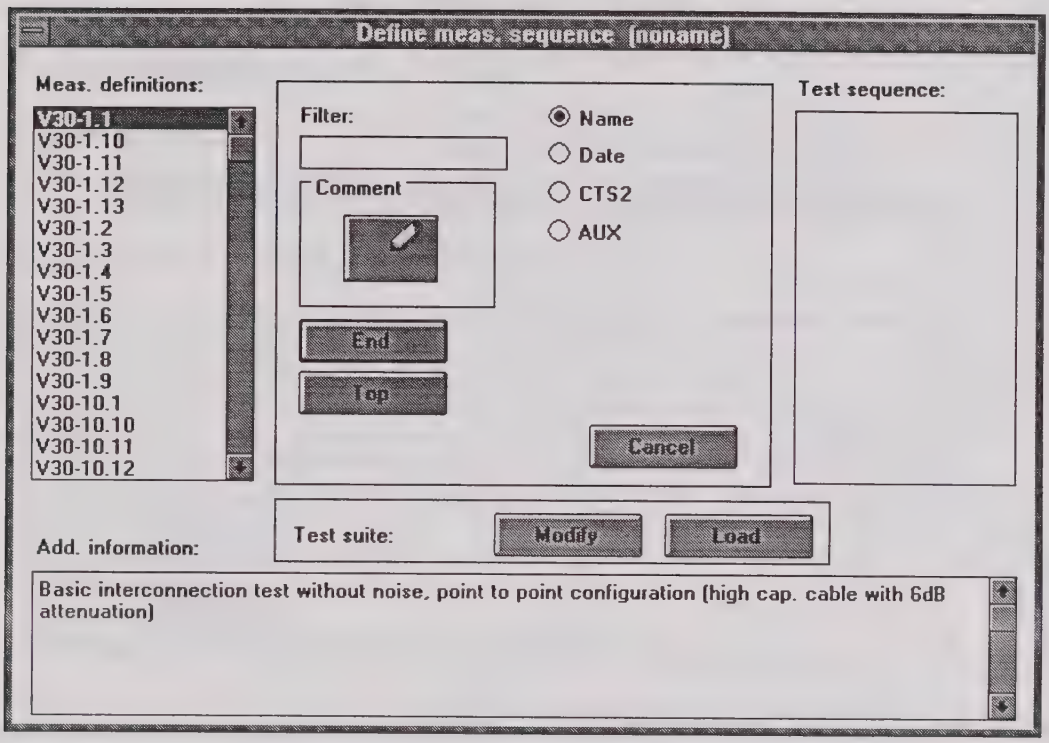
### 5.4.6 Delete (Test Suite)

Under this menu item, a test suite data set in the data bank can be deleted.

## 5.5 Test Sequence Menu

### 5.5.1 CTS2 ISDN Test Sequence (Test Sequence)

The user can define a new CTS2 ISDN test sequence using the existing CTS2 ISDN measurement definitions.




The CTS2 ISDN measurement definitions already saved are displayed in the dialog box on the left.

The list of the CTS2 ISDN measurement definitions can be sorted according to certain criteria by selecting the buttons **Name**, **Date**, **CTS2** and **AUX**. The inputs **CTS2** and **AUX** in the data bank are optional and not entered automatically.

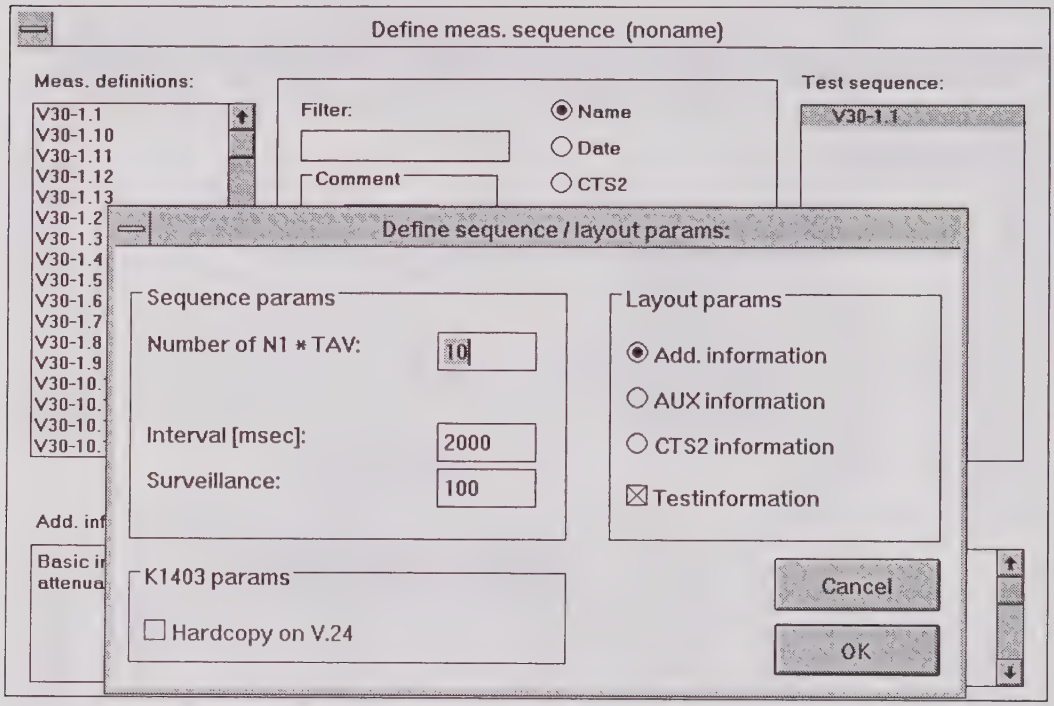
If the list is very large, it is advisable to simplify the search for a specific data set by clicking **Filter.** The list is adapted or shortened according to the filter criterium entered in this field. The filter function always refers to the search parameter already set (**Name**, **Date**, **CTS2** or **AUX**).

The desired CTS2 ISDN measurement definition can be inserted at the top or bottom of the test sequence list displayed on the right by clicking **Top** or **End** respectively. You can also insert the desired measurement sequence at the end of the list by double-clicking.

If you want to insert the CTS2 ISDN measurement definition at a specific position in the CTS2 ISDN test sequence list, first mark the position in this list using the mouse button. If you now move the mouse to the list of measurement definitions on the left and select one of them, the button **Position** appears. Click **Position** to move the desired measurement definition to the previously selected position in the test sequence list.

If a measurement definition has been selected in the CTS2 ISDN test sequence list, a new button **Delete** also appears. The selected measurement definition can be deleted again from the test sequence list by clicking this button.

The measurement sequence parameters whose nominal values are measurement-specific, can be set via the button **Sequence**:




**Sequence parameters / (CTS2 ISDN TEST SEQUENCE)**

| | |
|---|---|
| **N1 * TAV )*** | Determines the number of data blocks expected by the remote control software to complete a measurement or initiate a sequential action. |
| **(N2 * TAV)** | In the case of some measurements it is possible to enter two different parameters N1, N2 for the number of data blocks. These measurement sequences run in two steps. For reasons of sequence optimizing, a different number of data blocks can be selected for each step. The user can change these parameters when defining the test sequence. Thus the test sequence can be individually geared to the behavior of the test object. |
| **Interval in msec** | Determines the time span in which existing measured data are cyclically requested from the measurement device via the IEC bus. |
| **Surveillance** | Interval (ms) * surveillance = Timeout of the individual test (ms) After the timeout, the running test ist stopped and the next test started. |

)* TAV (Trace available) see also User Manual K1403, Chapter 5

### Layout parameters / (CTS2 ISDN TEST SEQUENCE )

⊙ **Add. information** The additional information of the measurement definition is optionally output in the report.

⊙ **AUX information** The AUXiliary information of the measurement definition is optionally output in the report.

⊙ **CTS information** The CTS information of the measurement definition is optionally output in the report.

☒ **Test information** The comment of the measurement definition is output in the report.

### K1403 parameters / (CTS2 ISDN TEST SEQUENCE)

If the parameter **sequence K1403 parameters V.24 HARDCOPY** has been selected, a HARDCOPY edition of the K1403 display is initiated via the serial interface of the unit after a measurement has been completed. If the unit setting has been selected accordingly, a TIFF format can also be transmitted and saved as a file with a serial number using the PC help program "HC.exe". For automatic incorporation into a protocol, the entry "HardCopy # n [Fehler (Error)] is inserted in the results file "Results.txt", where n is the running index for printouts transmitted. If a printout is not possible, for example because of a missing cable connection, an error message is added to the entry. Note: A hardcopy prolongs the test sequence by the amount of time required to print (at least 40 s).

### Test suite parameters / (CTS2 ISDN TEST SEQUENCE)

After all sequence parameters have been set, there is the option of changing the test suite parameters. These parameters describe the characteristics of the terminal unit and are transmitted via the IEC bus together with the measurements **TTCN test** (APPENDIX B1/APPENDIX B2) from the measurement group **Functional tests.** This parameter block is irrelevant if no **TTCN test** has been entered in the CTS2 ISDN test sequence.

The current test suite parameter block is displayed when the button **Modify** is clicked. A test suite parameter block that has been saved previously can be selected by clicking **Load**. You can save the test sequence with the selected test suite parameters under the menu item **Save/Save as**. After that the test sequence can be executed. If you create a new test sequence with TTCN tests, default values are entered for the test suite parameters.

In addition to the setting options on the measurement device, individual comments may be entered by clicking **Comment**.

For further information please consult the manual **Functional Tests Option K1403**, C73000-B6076-C57.

## 5.5.2 User Definition Test Sequence (Test sequence)

The user has the option to define a new user test sequence using the existing user measurement definitions.

The previously saved user measurement definitions are displayed in the dialog box on the left.

The list of user measurement definitions can be sorted according to certain criteria by selecting the buttons **Name**, **Date**, **CTS2** and **AUX**. The inputs **CTS** and **AUX** in the data bank are optional and not entered automatically.

If the list is very large, it is advisable to simplify the search for a specific data set by clicking **Filter.** The list is adapted or shortened according to the filter criterium entered in this field. The filter function always refers to the search parameter already set (**Name**, **Date**, **CTS2** or **AUX**).

The desired user measurement definition can be inserted at the top or bottom of the user test sequence list displayed on the right by clicking **Top** or **End** respectively. You can also insert the desired user measurement definition at the end of the list by double-clicking.

If you want to insert the user measurement definition at a specific position in the user test sequence list, first mark the position in this list using the mouse. If you now move the mouse to the list of user measurement definitions on the left and select one of them, the button **Position** appears. Click **Position** to move the desired measurement definition to the previously selected position in the user test sequence list.

If a specific user measurement definition has been selected in the user test sequence list, a new button **Delete** also appears. The selected measurement definition can be deleted again from the user test sequence list by clicking this button.

The measurement sequence parameters can be set via the button **Sequence**:

**Sequence parameters / (USER DEFINITION TEST SEQUENCE)**

| | |
|---|---|
| **N1 * TAV )*** | Determines the number of data blocks expected by the remote control software to complete a measurement or initiate a sequential action. |
| **(N2 * TAV)** | In the case of some measurements it is possible to enter two different parameters N1, N2 for the number of data blocks. These measurement sequences run in two steps. For reasons of sequence optimizing, a different number of data blocks can be selected for each step. The user can change these parameters when defining the test sequence. Thus the test sequence can be individually geared to the behavior of the test object. |
| **Interval in msec** | Determines the time span in which existing measured data are cyclically requested from the measurement device via the IEC bus. |
| **Surveillance** | Interval (ms) * surveillance = Timeout of the individual test (ms)<br>After the timeout, the running test ist stopped and the next test started. |

### Layout parameters / (USER DEFINITION TEST SEQUENCE )

⊙ **Add. information** The additional information of the measurement definition is optionally output in the report.

⊙ **AUX information** The AUXiliary information of the measurement definition is optionally output in the report.

⊙ **CTS information** The CTS information of the measurement definition is optionally output in the report.

☒ **Test information** The comment of the measurement definition is output in the report.

### K1403 parameters / (USER DEFINITION TEST SEQUENCE)

If the parameter **sequence K1403 parameters V.24 HARDCOPY** has been selected, a HARDCOPY edition of the K1403 display is initiated via the serial interface of the unit after the end of a measurement. If the unit setting has been selected accordingly, a TIFF format can also be transmitted and saved as a file with a serial number using the PC help program "HC.exe". For automatic incorporation into a protocol, the entry "HardCopy # n [Fehler (Error)] is inserted in the results file "Results.txt", where n is the running index for printouts transmitted. If a printout is not possible, for example because of a missing cable connection, an error message is added to the entry. Note: A hardcopy prolongs the test sequence by the amount of time required to print (at least 40 s).

### Test suite parameters / (USER DEFINITION TEST SEQUENCE)

Besides setting sequence parameters you can also change the test suite parameters. These parameters describe the characteristics of the terminal unit and are transmitted via the IEC bus together with the measurements **TTCN test** (APPENDIX B1/APPENDIX B2) from the measurement group **Functional tests.** This parameter block is irrelevant if no **TTCN test** has been entered in the CTS2 ISDN test sequence.

The current test suite parameter block is displayed when the button **Modify** is clicked. A test suite parameter block that has been saved previously can be selected by clicking **Load**. You can save the test sequence with the selected test suite parameters under the menu item **Save/Save as**. After that the test sequence can be executed. If you create a new test sequence with TTCN tests, default values are entered for the test suite parameters.

In addition to the setting options on the measurement device, individual comments may be entered by clicking **Comment**.

For further information please consult the manual "**Functional Tests Option K1403**" C73600-B6000-C57.

### 5.5.3 Save CTS2 ISDN (Test sequence)

Under this menu item a previously loaded CTS2 ISDN test sequence data set can be saved.

This menu item is enabled only if a CTS2 ISDN test sequence data set has already been loaded in the data bank. The modified data set is saved in the data bank under the same name under which it was previously loaded.

The test suite parameters which have been set or loaded for a specific TTCN test sequence are saved together with the test sequence under the name selected.

If you want to save the data set under a new name, call up the menu function **Save as CTS2 ISDN (TEST SEQUENCE)**.

### 5.5.4 Save as CTS2 ISDN (Test Sequence)

Under this menu item a CTS2 ISDN test sequence data set can be saved under a new name.

In order to avoid any ambiguities, the user must choose a name which does not yet exist in the data bank. The name given appears in the current selection list when loading or deleting a data set.

The menu item is enabled if the user has already loaded or newly defined a CTS2 ISDN test sequence data set. The data set displayed is saved under the new name in the data bank.

### 5.5.5 Save Test Sequence (Test Sequence)

Under this menu item a previously loaded user test sequence data set can be saved.

This menu item is enabled only if a user test sequence data set has already been loaded in the data bank. The modified data set is saved in the data bank under the same name under which it was previously loaded.

The TTCN test suite parameters which have been set or loaded for a specific TTCN test sequence are saved together with the test sequence under the name selected.

If you want to save the data set under a new name, call up the menu function **Save as test sequence (TEST SEQUENCE)**.

### 5.5.6 Save as Test Sequence (Test sequence)

Under this menu item a user test sequence data set can be saved under a new name.

In order to avoid any ambiguities, the user must choose a name which does not yet exist in the data bank. The name given appears in the current selection list when loading or deleting a data set.

The menu item is enabled when the user has already loaded a user test sequence data set or defined a new one. The data set displayed is saved under the new name in the data bank.

### 5.5.7 Load CTS2 ISDN Test Sequence (Test Sequence)

Under this menu item a CTS2 ISDN test sequence data set can be loaded.

The function is enabled only if at least one CTS2 ISDN test sequence data set has already been saved in the data bank. A list of all previously saved CTS2 ISDN test sequence data sets is displayed for selection.

The displayed list is sorted alphabetically.

If the list is very large, it is advisable to simplify the search for a specific data set by clicking **Filter.** The list is adapted or shortened according to the filter criterium entered in this field.

### 5.5.8 Load User Test Sequence (Test Sequence)

Under this menu item a user test sequence data set can be loaded.

The function is enabled only if at least one user test sequence data set has already been saved in the data bank. A list of all previously saved user test sequence data sets is displayed for selection.

The displayed list is sorted alphabetically.

If the list is very large, it is advisable to simplify the search for a specific data set by clicking **Filter.** The list is adapted or shortened according to the filter criterium entered in this field.

### 5.5.9 Delete CTS2-ISDN (Test Sequence)

Under this menu item a CTS2 ISDN test sequence data set in the data bank can be deleted.

### 5.5.10 Delete User Test Sequence (Test Sequence)

Under this menu item a user test sequence data set in the data bank can be deleted.

## 5.6 Execution Menu

### 5.6.1 Test Sequence (Execution)

Under this menu item a user test sequence or CTS2 ISDN test sequence can be started. The two types of test sequences are displayed in separate lists. Select one of them and start the test sequence on the measurement device by clicking **Start**.

### 5.6.2 Aritficial Line (Execution)

Under this menu item a configuration for the artificial line option in the K1403 can be set.

The artificial line in the K1403 is set independently of the measurements, i.e. it is "isolated". The measurement setup occurs via the rear sockets. For further information please consult the User Manual C73600-G6000-C65-1.

Select an artificial line and click **Transmit** in order to transmit the settings to the measurement device and to execute.

# 6 Help

## 6.1 INDEX (Help)

This menu item calls up the help function of the application.

The help system for the remote control PC is **context-related**. The help information corresponding to any particular menu item can be called up by selecting this menu item on the display using the cursor keys and then pressing the function key **F1**.

# 7 Example for Application

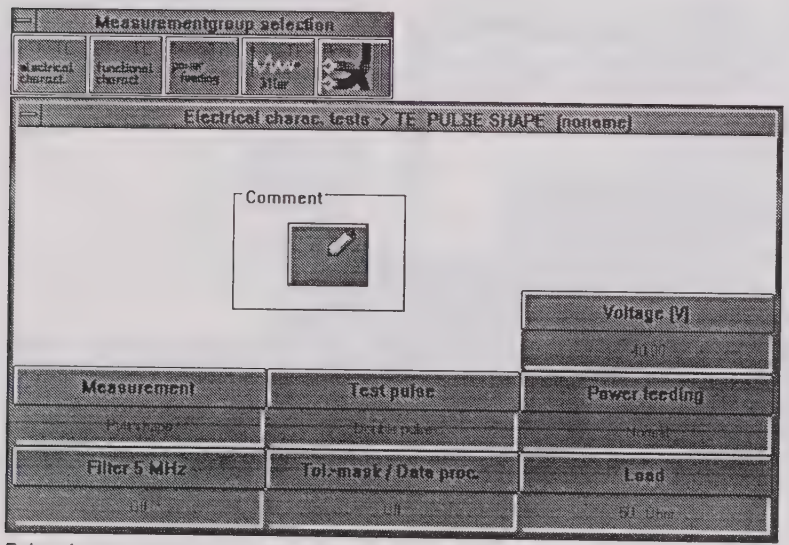
The application of the remote control software is described below using a simple example. A measurement sequence is combined from several individual measurements and a measurement protocol for a test object is created.

## 7.1 Programming measurements

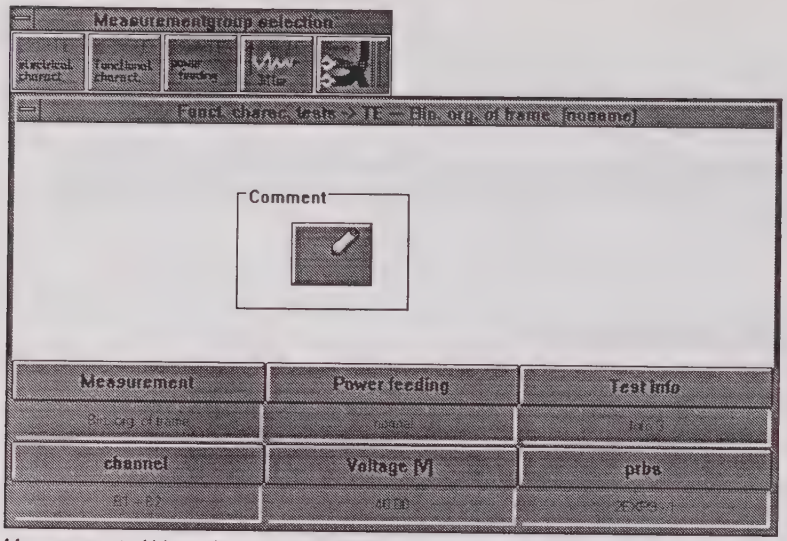
The following measurements are set and then saved in the menu MEASUREMENTS USER DEFINITION:

1. Electrical characteristics ⇨ Pulse shape measurement double pulse
2. Functional tests ⇨ Binary frame setup INFO3
3. Functional tests ⇨ Timer test TIF7compdeac1
4. Supply conditions ⇨ Power consumption

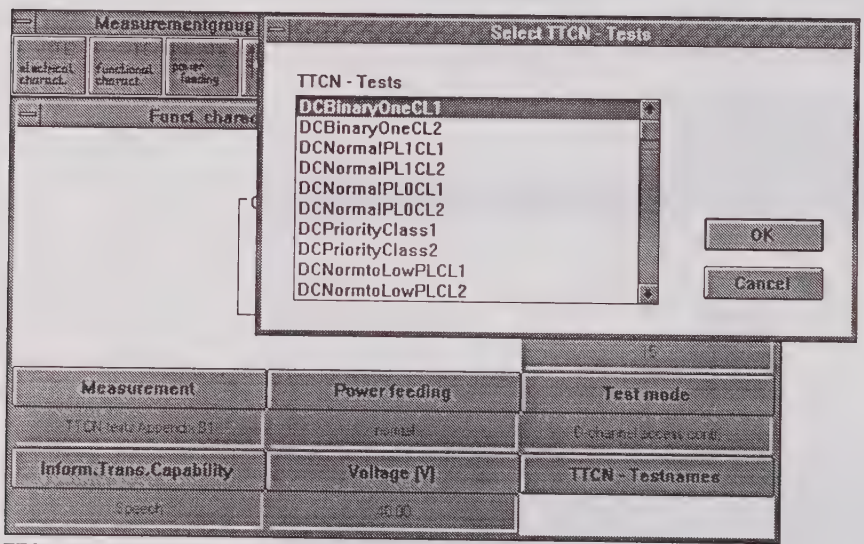
Then the required TEST SUITE parameters for the test object (telephone) are set.



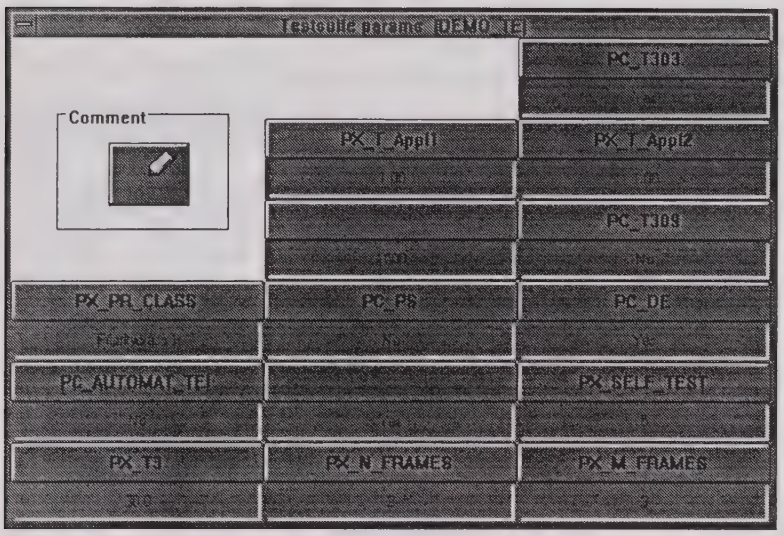

*Pulse shape measurement double pulse*



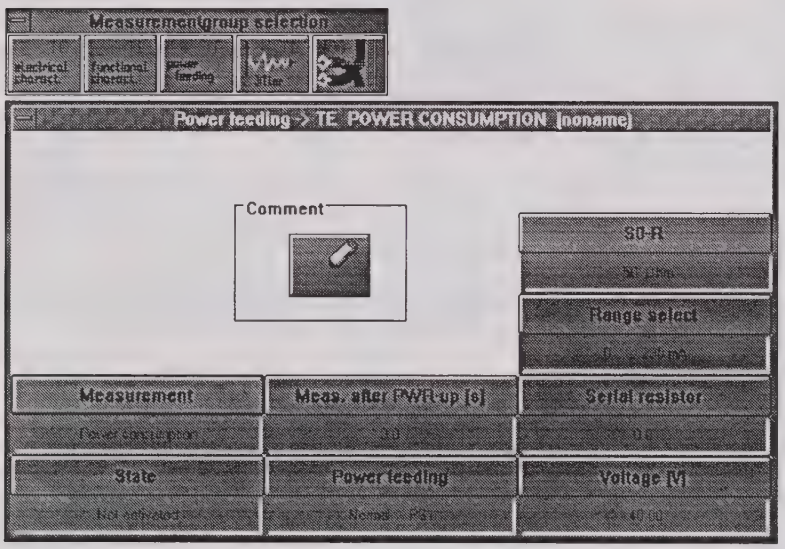

*Measurement of binary frame setup INFO3*




*TTCN-TIMER test TIF7comdeact1*




*Setting the TEST SUITE parameters*

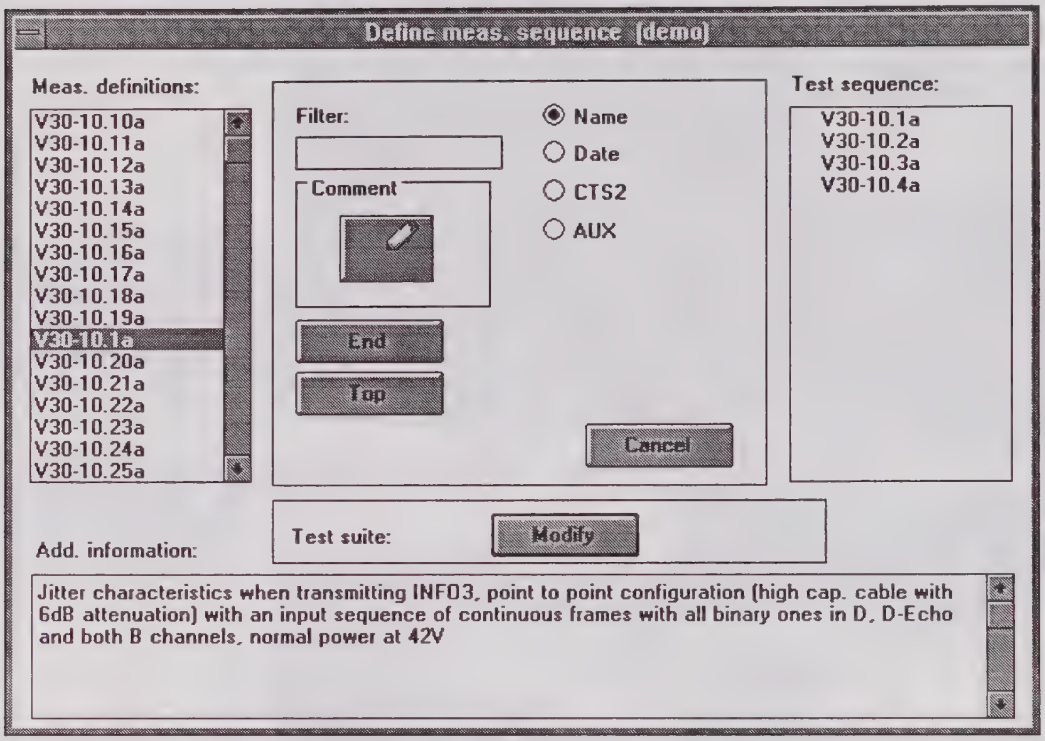



*Power feeding: power consumption*

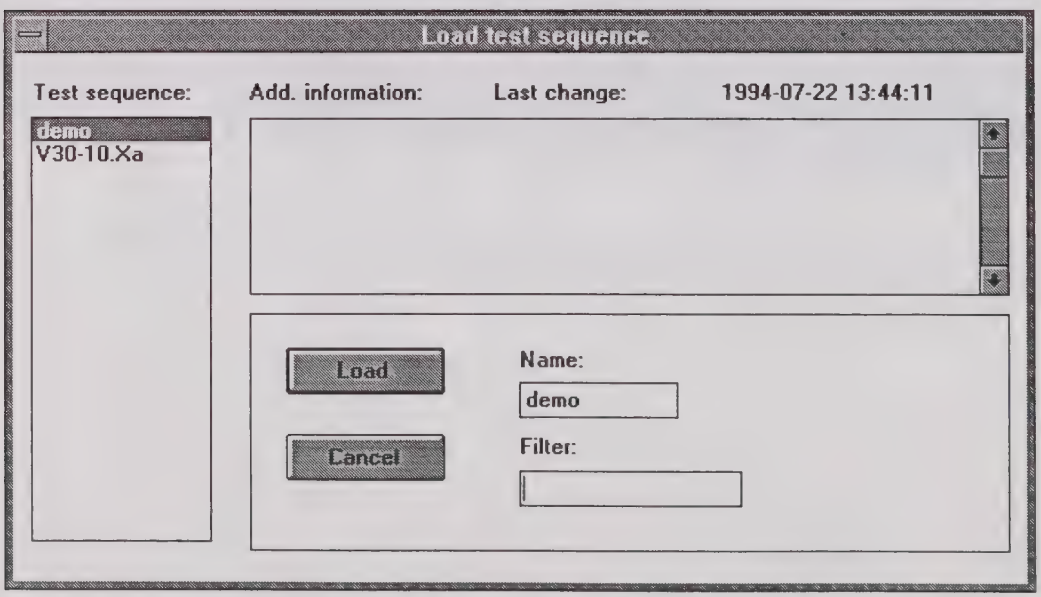
You can enter additonal information and a comment for each measurement by clicking **Comment**. These data will appear in the results protocol.

## 7.2 Creation of Measurement Sequence

In the menu USER DEFINITION TEST SEQUENCE the 4 individual test steps are linked in the desired order and saved under DEMO.

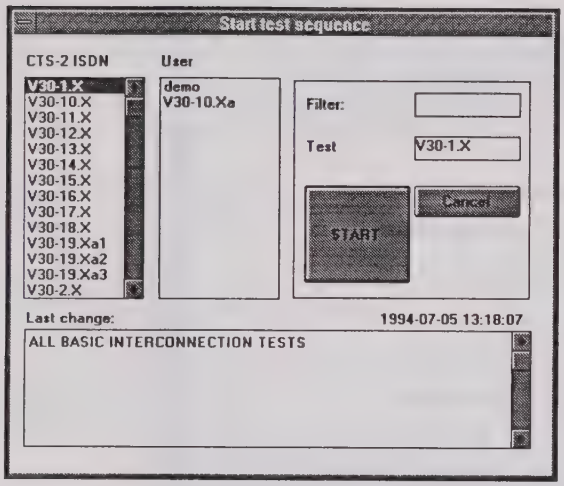



For each test step the additional information entered previously is displayed for a better overview. A comment on the complete test sequence can also be added to facilitate later selection from several saved test sequences.



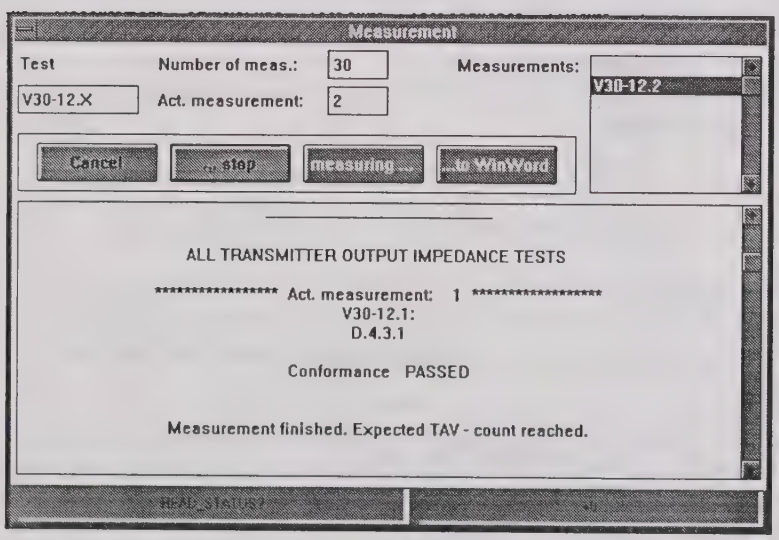
## 7.3 Start Measurement Sequence

In the menu EXECUTION the new test sequence DEMO can be called up and started.



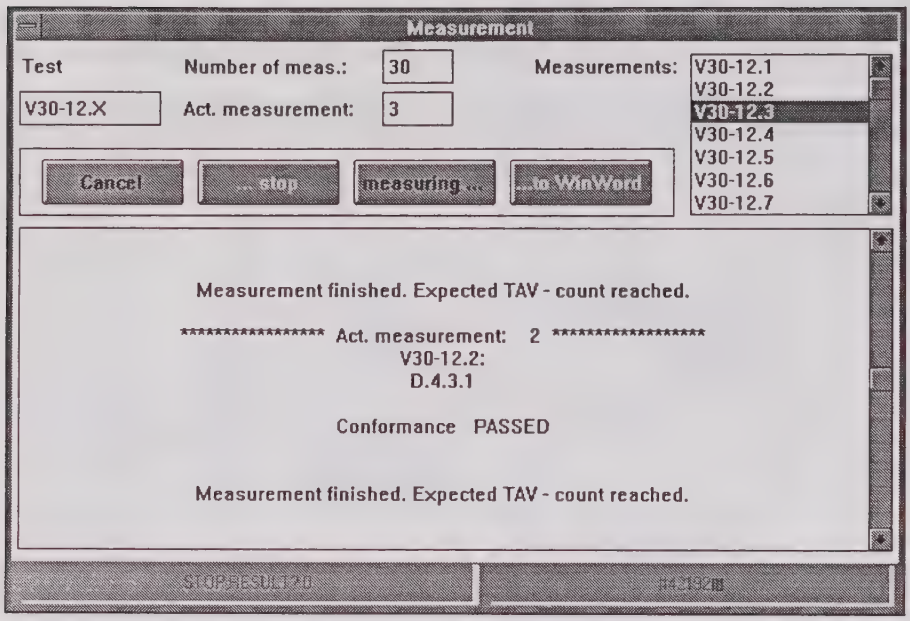

As mentioned above, the selection is facilitated by the display of the additional information. You can select between user definition and predefined CTS2 test specifications and sequences as with all other setting and selection functions.

Set the K1403 on the first measurement and execute by clicking START or activating the RETURN key. While the sequence is running, the status of the sequence is displayed by an "on-line" protocol.



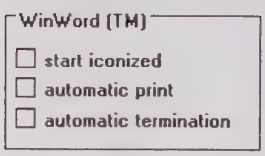

The number of measurements included in the test sequence and the current position in the sequence are displayed. The name of the current measurement appears in the square in the upper right corner.
In the window below, the name, additional information and measurement result of the current measurement are displayed. This window scrolls up during the measurement and can be scrolled up and down after termination.

## 7.3.1 Stop Measurement Sequence

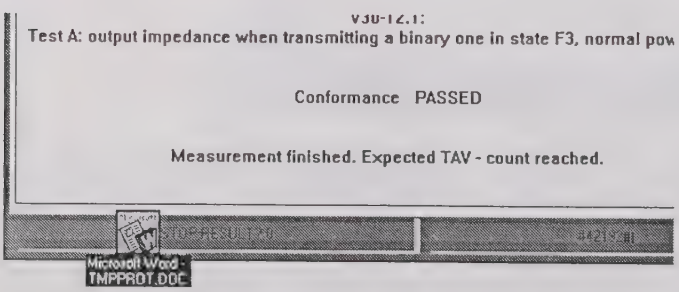



The test sequence can be halted by clicking "**stop**" (see above: example of a CTS2 test sequence). The measurement currently running is, however, completed first. The test sequence comes to a halt when the unit is in the STOP status again. As illustrated above it is possible to select a test of the test sequence in the window **Measurements** via "slider" and bar and to execute by clicking **measure**. Thus even a test sequence loaded in its entirety can be executed selectively. These tests will also be logged as described above.
After completion of a measurement, you can start the creation of the results protocol by clicking **...to output**. The protocol is created with MS-WINWORD.

If in the menu FILE CONFIGURATION:




was selected, the protocol is generated in the background and only the MS-WINWORD icon is displayed during this process.


V30-12.1:
Test A: output impedance when transmitting a binary one in state F3, normal pow
Conformance PASSED
Measurement finished. Expected TAV - count reached.
Microsoft Word - TMPPROT.DOC

## 7.4 The Results Protocol

This section describes the results protocol automatically generated by MS-WINWORD (see Appendix).

For the creation of an intermediate results protocol the file

PRHDGER.DOC (German) or
PRHDENG.DOC (Englisch)

is used. These files are automatically generated when the remote control software is installed and are located in the directory you selected.

They can be easily adapted to individual user requirements via MS-WINWORD. The notes contained serve to facilitate processing.

The results protocol for the executed test sequence is generated in the file TMPPROT.DOC. It is only a temporary file and overwritten with each new test sequence. Be sure to save this file after completion, using any name, directory etc. of your choice!

### 7.4.1 Header and Footer

The header includes the data which were entered in the menu FILE CONFIGURATION as well as the current date.

The footer contains the complete version data for the K1403 used. They are unambiguous for the output status of all relevant hardware and software components of the K1403. Also included is the version number of the remote control software used, in this case "Conformance Tester K1403 V3.0".

As described in section 7.3, the company name and the type of page numbering can be modified as required.

### 7.4.2 Protocol Head and Measurement Results

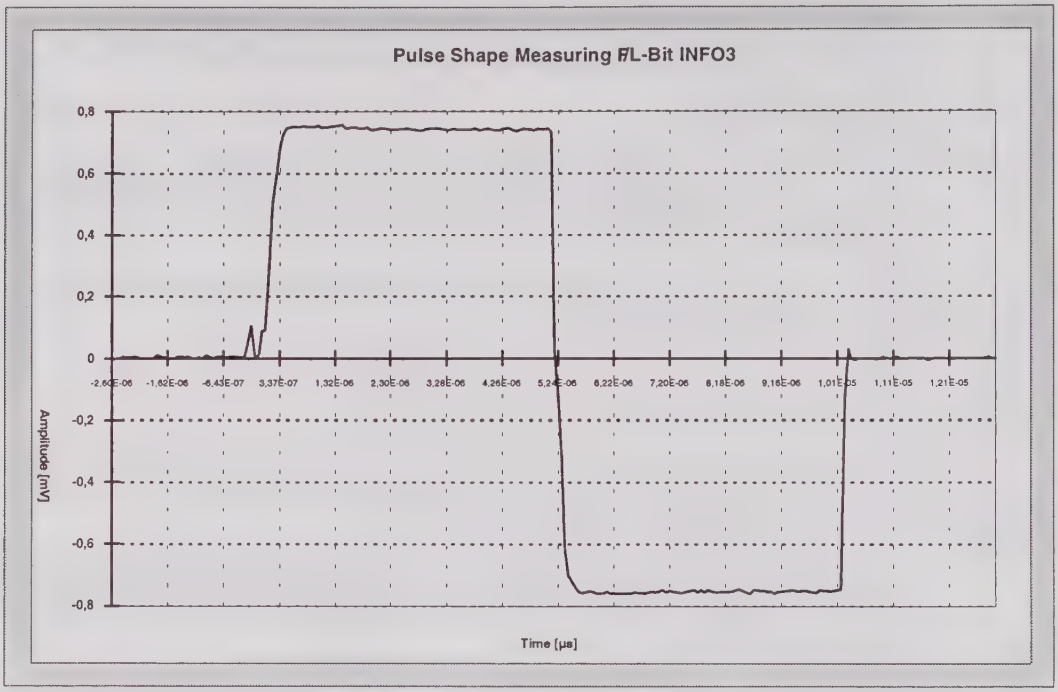
The protocol head also contains in large type and tabular form the data entered in the menu FILE CONFIGURATION, as well as the description of the measured object. The additional description of the measurement sequence logged follows.

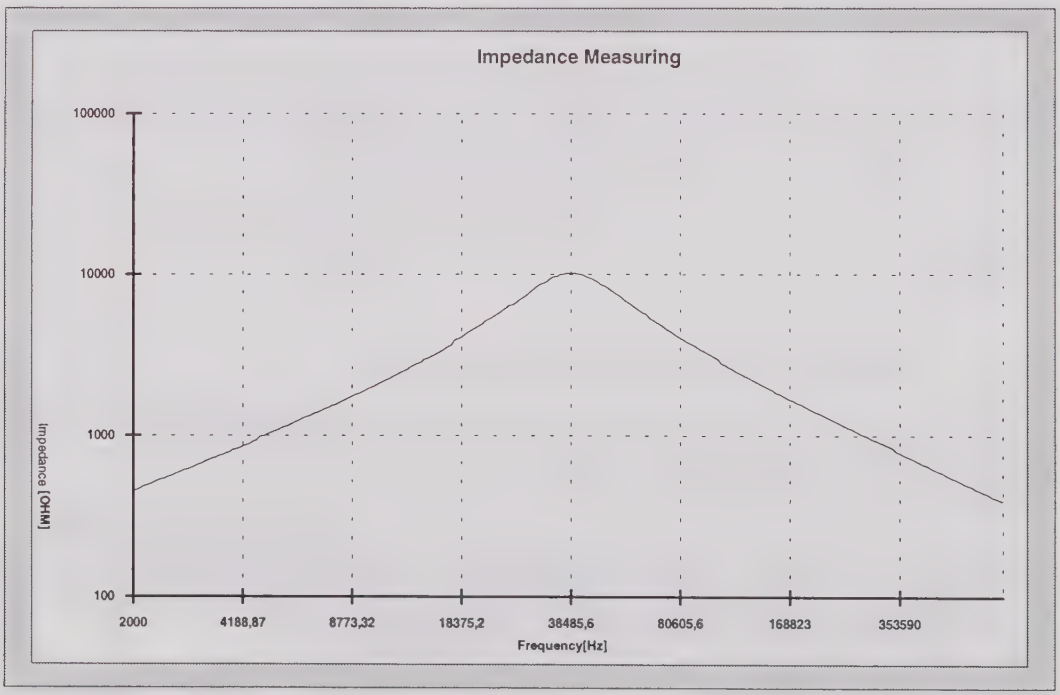
The name of each individual measurement is listed in front of the measurement. The complete K1403 setting string is displayed before the measurement results for this measurement.This string contains all required parameters. Furthermore, the additional description and the comment are displayed. These data can be selected in the configuration menu.

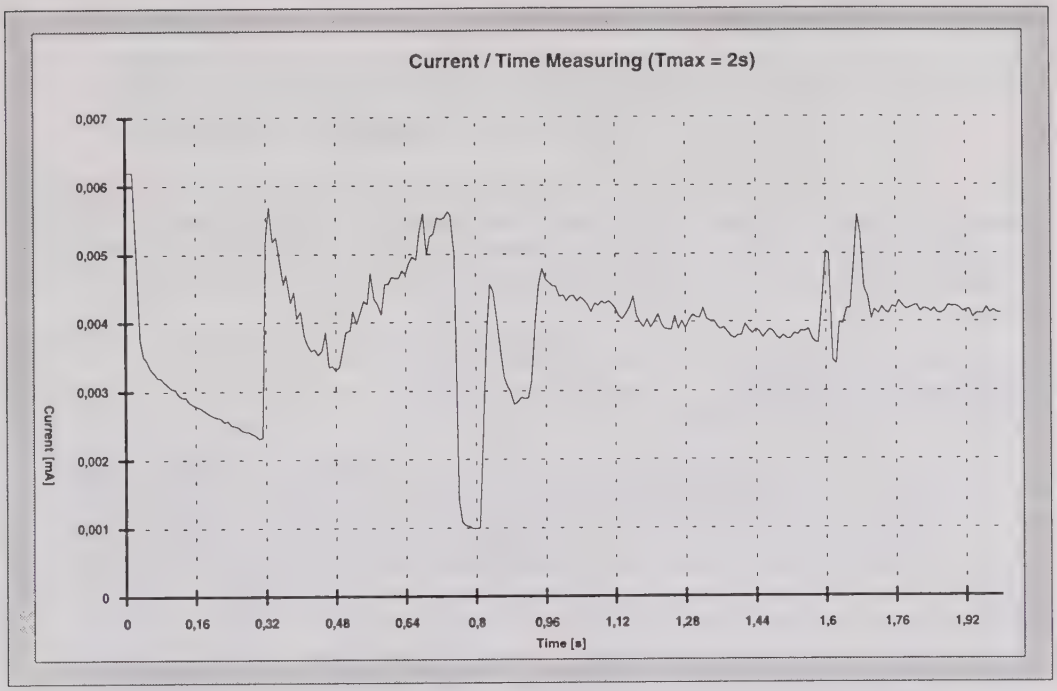
Graphic measurement results are displayed in tables. The floating point number contained in the file "Results.txt" can for example be processed further using MS-GRAPH.
Note: The K1403 measurement result '∞' is output in the remote control software as 9.990e+37.

Please note that for further processing the numbers before and after the decimal point of the floating point numbers must be separated by a ",". The result tables are displayed in two columns due to their length. This means that abscissa and ordinate values must each be transferred from two columns to MS-GRAPH and linked together there.

Below are some typical examples of measurements of pulse shape, impedance and current/time.






In the case of a "Binary frame setup" measurement, a quasi-diagram is already edited with line symbols and displayed in the protocol.

The results of the functional tests according to TTCN, unlike other measurement results, are displayed in tables consisting of the following entries:

| | |
|---|---|
| P | passed; test object behaves correctly |
| F | Failed; test object behaves incorrectly |
| I | Inconclusive; no conclusive statement possible. |
| B | Break; test was aborted |

Each test is marked with its complete abbreviation according to the TTCN syntax. Furthermore, a coded report of the test sequence can be read from the file TRACE.DAT. This file is filled with the "TRACES" of all consecutively executed TTCN tests. In our example of the TIMER test, this file contains:

```
KT$ISDN1_TIF7compdeact1
KT$ISDN1_Start Test: 1994-04-30 17:29:57
KT$ISDN1_
8C04 842E 8407 82F6 8260 8200 821E 8221 8242 8245 8248 824B 8257 825A 8263 8084
8087 829C 82BD 82C0 82C3 82C6 82C9 8084 8087 82CC 82D8 82DB 82DE 8084 8087 82E1
82ED 82F0 836E 8371 8374 8377 8383 8386 840A 840D 8410 841C 841F 8422 8431 8434
8437 843A 844F 8452 0000 0000 0000 0000 0000 0000 0000 0000 0000 0000 0000 0000
0000 0000 0000 0000 0000 0000 0000 0000 0000 0000 0000 0000 0000 0000 0000 0000
0000 0000 0000 0000 0000 0000 0000 0000 0000 0000 0000 0000 0000 0000 0000 0000
0000 0000 0000 0000 0000 0000 0000 0000 0000 0000 0000 0000 0000 0000 0000 0000
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0000 0000 0000 0000 0000 0000 0000 0000 0000 0000 0000 0000 0000 0000 0000 0000
0000 0000 0000 0000 0000 0000 0000 0000 0000 0000 0000 0000 0000 0000 0000 0000

End of trace ! V2.50
```

These data can be decoded and displayed in the correct TTCN syntax with the aid of the SIEMENS software K1403 TTCN TRACE ANALYSER. All executed test steps are highlighted in color to distinguish them from non-executed but possible test steps. Thus the cause of any test result (P,F,I) is clear.

For further information please contact your SIEMENS partner.

# 8 Status Information and Error Messages

## 8.1 Messages in English

All messages of this application are described below. The list specifies whether the message displayed is only a warning, a question or a user prompt.

A short description is added if the message is not self-explanatory.

The corresponding messages in German (Chapter 8.2) are not explained in detail.

**K1403 Status messages: The following messages describe errors/information which were transferred directly from the measurement device K1403 via status requests.**

| No. | Description |
|---|---|
| 9646 | *Voltage set error* |
| 9647 | *Voltage switched off (e.g. because of short circuit, overlaod)* |
| 9648 | *Temperature on power element of supply condition too high* |
| 9649 | *Internal error of supply condition* |
| 9650 | *Measurement aborted* |
| 9651 | *Read/Write failure (Boards)*<br>*Possible reasons:*<br>• *An attempt is made to start a measurement although the corresponding module does not exist.*<br>• *A module cannot answer any more.* |
| 9652 | *External inverted voltage at measuring sockets Bu6 or Bu7* |
| 9653 | *Calibration of artificial line aborted* |
| 9654 | *Layer 1 error (functional tests)* |
| 9655 | *Measurement finished (functional tests)* |
| 9656 | *New interval - measurement is completet (functional tests* |

### Errors during dynamic connection of the IEC bus driver

| No. | Description | Comments |
|---|---|---|
| 2350 | *Fatal error ! Dynamic link interface [IEC_NIEC.DLL] to IEEE - bus driver not found!* | |
| 2351 | *IEEE - bus driver library [GPIB.DLL] not found. IEEE - bus communication not available!* | Warning. Measurements, test sequences etc. can be defined, loaded, etc. but not transmitted to the measurement device. |
| 2352 | *Fatal error during loading dynamic link interface to IEEE - bus drive!* | The Windows system could not load the library, possibly storage capacity exhausted |
| 2353 | *Dynamic link interface to IEEE - bus driver may be corrupted. Function(s) not found!* | The library may be destroyed, since the expected functions could not be found. |
| 2354 | *Internal dynamic link interface to IEEE - bus handling error. Call to unavailable function.* | Should not occur |

### Questions or requests of the user of the PC-Remote Control Software

| No. | Description | Comments |
|---|---|---|
| 6000 | *Do you want to delete this dataset?* | Prompt for user confirmation when deleting a data set |
| 6002 | *To complete the action the measurement device would be stopped automatically. Do you want to continue?* | Prompt for user confirmation in the case of a test during test sequence definition, execution of a test sequence or transmission of an artificial line group1, if the measurement device is not in stop status. |
| 6003 | *Dataset already exists! Overwrite existing dataset?* | Question appears when user enters an already existing data set name in the function "... save as ..." |
| 6004 | | |
| 6021 | *Please connect plug BU6 /BU7!* | Promt for user action for peak current measurement. |
| 6022 | *Please disconnect plug BU6 BU7!* | Promt for user action for peak current measurement. |

### Error messages which describe internal or Windows system errors

These error messages may appear, if Windows is operating at the limits of its memory capacity.

| No. | Description |
|---|---|
| 9000 | *Stringtable* |
| 9001 | *Device context* |
| 9002 | *Bitmap* |
| 9003 | *Memory context* |
| 9004 | *Object* |
| 9005 | *Built* |
| 9006 | *Dialog* |

| No. | Description |
|---|---|
| 9007 | *GObj* |
| 9008 | *DIB* |
| 9009 | *Text* |
| 9010 | *CONTROL failed* |
| 9011 | *DEVICE context* |
| 9012 | *ITEM failed* |
| 9013 | *No SPACE in Item list* |

### Measurement device not found

| No. | Description | Comments |
|---|---|---|
| 9014 | *Wasn't able to find a measurement device K1403 at IEC - bus.* | This message appears when a search for a measurement device K1403 at the IEC bus was unsuccessful. This occurs during a start-up of the PC-Remote Control Software and in the form configuration, if no entry was made for the IEC bus address. See also 9147, 9148. |

### Internal measurement handling error

| No. | Description | Comments |
|---|---|---|
| 9015 | *Measurement not defined* | This message normally should not occur. |

### Input error

| No. | Description | Comments |
|---|---|---|
| 9016 | *Datasetname must not contain character '@'.* | A master space is generally forbidden in a data set name, because it is used during the WinWord protocol generation. The message appears when a master space is entered in a data set name under the function "... save as ...". |
| 9017 | *Input error* | E.g. text was entered instead of numbers etc. |
| 9018 | *Input missing* | |
| 9019 | *Invalid input range* | |

### Define test sequence

| No. | Description | Comments |
|---|---|---|
| 9020 | *Max. number of measurements* | The maximum number of 100 measurement definitions a test sequence can contain has been reached. |

### Errors during a measurement

| No. | Description | Comments |
|---|---|---|
| 9021 | *TIMER1 error* | The Windows system did not supply a timer. Close some windows which require timers, for example clocks etc. |
| 9022 | *No space - no data in clipboard* | Not enough memory to save the contents of the output window in the window ClipBoard. |
| 9023 | *MicroSoft WinWord not found!* | MicroSoft WinWord could not be started by the PC-Remote Control Software. Check the installation of the PC. Possibly WinWord must be started manually via the program manager, then try output to WinWord again. |

### Errors during transfer from measurement device

| No. | Description | Comments |
|---|---|---|
| 9024 | *Please set K1403 to a measurement and not an artificial line.* | During transfer of a measurement, an artificial line was recognized. |
| 9025 | *Please set K1403 to an artificial line.* | During transfer of an artificial line, no artificial line was recognized. |
| 9026 | *Please set K1403 to TTCN - Tests to get Test-Suite params* | During transfer of the test suite parameters no TTCN tests were recognized. |

### Incorrect measurement device version

| No. | Description | Comments |
|---|---|---|
| 9028 | *K1403 Version %d.%d expected. Using K1403 Version %d.%d may cause unexpected results during IEC - bus communication.* | Warning. Instead of the format %d.%d the recognized measurement device version is output. |

### Error in hardcopy request after completion of a measurement

| No. | Description | Comments |
|---|---|---|
| 9029 | *%u K1403 hardcopy attempt(s) failed. K1403 Printer not ready ?* | Warning. Instead of the format %u the number of faulty attempts is output. |

### Errors during dynamic connection of the Appendix B2 extension

| No. | Description | Comments |
|---|---|---|
| 9040 | *Fatal error during K1403_B2.DLL loading !* | Windows system could not load memory, possibly not enough memory |
| 9041 | *Loaded software extension K1403_B2.DLL is corrupted!* | The library may be destroyed, since the expected functions could not be found. |
| 9042 | *Extended TTCN Tests Appendix B2 handler loaded but your measurement device cannot process TTCN Tests Appendix B2 measurements!* | Warning. TTCN tests Appendix B2 can be defined but not transmitted to the measurement device. |

## Measurement error or TTCN tests Appendix B2

| No. | Description | Comments |
|---|---|---|
| 9043 | *Invalid measuring mode (K1403_B2.DLL available?* | A TTCN test Appendix B2 was received from the measurement device while DLL was missing. See also 9312. |
| 9044 | *Your measurement device cannot process TTCN Tests Appendix B2 measurements!* | A TTCN test Appendix B2 was transmitted to the measurement device although according to the version the device cannot process this measurement. |

## Error during output at display or in file

| No. | Description | Comments |
|---|---|---|
| 9050 | *The text is too long to be hold in the textbuffer. You find the complete measurement results in the temporary resultfile!* | The output field can only accept 32 kB. If the limit is reached, the beginning is deleted and this message appears in the output field. The message is not displayed on the screen. |
| 9051 | *Fatal error writing file %s! Further measurement results cannot be saved in file %s.* | Possibly not enough memory on hard disk, instead of the format %s the file name is output. |
| 9053 | *Outputdocument %s is in use. Complete the program which uses %s and try again.* | This message appears when for instance the protocol output via WinWord was started a second time without previously closing the first level of WinWord (which still processes RESULTS.TXT or TMPPROT.DOC. Instead of the format %s the file name is output. |
| 9054 | *Unable to initialize intermediate resultfile %s. %s writeprotected?* | Instead of the format %s the file name is output. |

## Error in data set processing

| No. | Description | Comments |
|---|---|---|
| 9060 | *Internal dataconversionerror!* | Should not occur. |
| 9061 | *Incompatible datasetversion!* | The PC-Remote Control Software recognized that the data set version ist not compatible with the expected version, although the size of the data set is correct. Generally a version error of data bank files / PC-Remote Control Software. |

## Error during IEC bus communication

| No. | Description | Comments |
|---|---|---|
| 9145 | *No ART_LINE - card existing* | An artificial line of group 2 which is not config.4 was transmitted to the measurement device. |
| 9146 | *Allowed IEEE - Busaddress: 1 ... 31 Enter empty string to search device at IEC bus.* | An illegal IEC bus address was entered in the entry field IEC bus address (form configuration). |
| 9147 | *Device with requested IEEE - address is not on the bus or no measurement device K1403.* | The search for the K1403 measurement device under the IEC bus address entered was unsuccesful. This occurs if a value was entered for the IEC bus address in the form configuration. |
| 9148 | *Connection to measurement device K1403 lost.* | An existing IEC bus connection has been lost. |
| 9149 | *Your measurement device cannot proccess an artificial line of the type Config.3b.* | An artificial line of group 1/2 which was not of the type config. 3b was transferred to the measurement device, although according to the version string the measurement device cannot process it. |

| No. | Description | Comments |
|---|---|---|
| 9150 | *Jitter OPTION not available!* | One of the following measurements was transmitted to the device during the definition or execution of a test sequence:<br>• *The measurement "Jitter measurement at TE" cannot be executed because the jitter option is not available*<br>• *The measurement "Frame delay" cannot be executed without the jitter option if the clock parameter is not internal or is 12,288 MHz external.*<br>• *The measurement "Receiver sensitivity" cannot be executed without the jitter option if the clock parameter is not internal or is 12,288 MHz external.* |

## Data bank error

| No. | Description | Comments |
|---|---|---|
| 9200 | *Invalid filename* | |
| 9201 | *Invalid file parameter* | |
| 9202 | *Invalid messfile* | |
| 9203 | *Set limit reached* | |
| 9204 | *Invalid file* | |
| 9205 | *Invalid save file* | |
| 9206 | *Invalid copy file* | |
| 9207 | *Invalid delete file* | |
| 9208 | *Key exists* | An already existing data set name was entered when trying to save a data set (function "... save as ..." |
| 9209 | *Invalid new path* | |
| 9210 | *Invalid drive* | |
| 9211 | *Directory not set* | |
| 9212 | *Invalid check-file* | |
| 9213 | *Norm file not found* | The installation of the PC-Remote Control Software is incomplete. The availability of the norm file is assumed. |
| 9214 | *No load dataset found* | |
| 9215 | *No save dataset found* | |
| 9216 | *Check file not found* | |
| 9217 | *Invalid keynumber* | |
| 9218 | *File not deleted* | |
| 9219 | *FATAL ERROR: maximal recordlength* | The data bank file is incompatible with the PC-Remote Control Software, possibly due to different versions of the data bank and the PC-Remote Control Software. |
| 9220 | *FATAL ERROR: different recordlength* | The data bank file is incompatible with the PC-Remote Control Software, possibly due to different versions of the data bank and the PC-Remote Control Software. |

## Conversion errors for data transferred from the measurement device K1403

These error messages should not occur.

| No. | Description |
|---|---|
| 9300 | *Invalid transmitter / receiver* |
| 9301 | *Invalid power feeding* |
| 9302 | *Invalid first edit value* |
| 9303 | *Invalid frequency range* |
| 9304 | *Invalid second edit value* |
| 9305 | *Invalid third edit value* |
| 9306 | *Invalid transmit level* |
| 9307 | *Invalid fourth edit value* |
| 9308 | *Invalid toleration mask* |
| 9309 | *Invalid measuring type* |
| 9310 | *Invalid mode (TE / NT)* |
| 9311 | *Invalid measuring group* |
| 9312 | *Invalid measuring mode* |
| 9313 | *Invalid telegramm format* |
| 9314 | *Invalid pulse* |
| 9315 | *Invalid load* |
| 9316 | *Invalid transmit pattern* |
| 9317 | *Invalid gate time* |
| 9318 | *Invalid master clock* |
| 9319 | *Invalid filter* |
| 9320 | *Invalid current* |
| 9321 | *Invalid command* |
| 9322 | *Invalid range select* |
| 9323 | *Invalid measuring time* |
| 9324 | *Invalid disconnection mode* |
| 9325 | *Invalid state* |
| 9326 | *Invalid power startup mode* |
| 9327 | *Invalid source type* |
| 9328 | *Invalid fifth edit value* |
| 9329 | *Invalid wiring configuration* |
| 9330 | *Invalid K1403 at* |
| 9331 | *Invalid wiring length* |
| 9332 | *Invalid TR-near* |
| 9333 | *Invalid TR-far* |
| 9334 | *Invalid noise frequency* |

| No. | Description |
|---|---|
| 9335 | *Invalid noise distance* |
| 9336 | *Invalid noise type* |
| 9337 | *Invalid number of TE's* |
| 9338 | *Invalid TE-configuration* |
| 9339 | *Invalid RX-direct* |
| 9340 | *Invalid calibration* |
| 9341 | *Invalid data parameter* |
| 9342 | *Invalid PRBS* |
| 9343 | *Invalid channel* |
| 9344 | *Invalid mode parameter* |
| 9345 | *Invalid state Fx parameter* |
| 9346 | *Invalid samplerate parameter* |
| 9347 | *Invalid triggergradient parameter* |
| 9348 | *Invalid triggerslope parameter* |
| 9349 | *Invalid test info* |
| 9350 | *Invalid channel* |
| 9351 | *Invalid prbs* |
| 9352 | *Invalid data* |
| 9353 | *Invalid power feeding* |
| 9354 | *Invalid activation* |
| 9355 | *Invalid channel* |
| 9356 | *Invalid prbs* |
| 9357 | *Invalid test mode* |
| 9358 | *Invalid inform.trans.capability* |
| 9359 | *Invalid analysis range* |
| 9360 | *Invalid low frequency* |
| 9361 | *Invalid high frequency* |
| 9362 | *Invalid measurement* |
| 9363 | *Invalid reference clock* |
| 9364 | *Invalid range* |
| 9365 | *Invalid jitter range* |
| 9366 | *Invalid jittergenerator* |
| 9367 | *Invalid TEI_ASSIGN* |
| 9368 | *Invalid MEASURING* |
| 9369 | *Invalid TESTMODE* |

## General IEC errors

| No. | Description |
|---|---|
| 9600 | *GPIB.INI file configuration error. GPIB.DLL did not find GPIB.INI. GPIB.INI must be in Windows catalog.* |
| 9601 | *Function requires GPIB board to be CIC* |
| 9602 | *Write handshake error (e. g., no Listener)* |
| 9603 | *GPIB board not addressed correctly* |
| 9604 | *Invalid argument to fuction call* |
| 9605 | *GPIB board not System Controller* |
| 9606 | *I/O operation aborted (timeout)* |
| 9607 | *Non-existent GPIB board* |
| 9610 | *Asynchronous I/O in progress* |
| 9611 | *No capability for Operation* |
| 9612 | *File system error* |
| 9614 | *GPIB bus error* |
| 9615 | *Seriel Poll status byte queue overflow* |
| 9616 | *SRQ stuck in ON postion* |
| 9620 | *Table problem* |
| 9640 | *IEC-query causes timeout The device may be blocked. Abort the measurement sequence, the values already measured can be logged in the protocol.* |
| 9641 | *Device not initialized* |
| 9642 | *IEC-command error (ESR-register) The measurement device K1403 sets an error in the EventStatusRegister.* |
| 9643 | *TAV - timeout occured No data have been supplied by the measurement device TRACE during the time set (sequence/layout parameters: interval * surveillance).* |
| 9644 | *Unknown measurement Internal IEC setting error which should not occur.* |

## Error messages directly transferred from the data bank system (BTRIEVE) which do not (should not) occur

| No. | Description |
|---|---|
| 9700 | *UNKNOWN BTRIEVE ERROR* |
| 9701 | *Invalid operation* |
| 9702 | *I/O error* |
| 9703 | *File not open* |
| 9704 | *Key value not found* |
| 9705 | *Duplicate key value* |
| 9706 | *Invalid key number* |
| 9707 | *Different key number* |
| 9708 | *Invalid positioning* |
| 9709 | *End of file* |
| 9710 | *Modifiable key value error* |
| 9711 | *Invalid filename* |
| 9712 | *File not found* |
| 9713 | *Extended file error* |
| 9714 | *Pre-image open error* |
| 9715 | *Pre-image I/O error* |
| 9716 | *Expansion error* |
| 9717 | *Close error* |
| 9718 | *Disk full* |

| No. | Description |
|---|---|
| 9750 | *Owner already set* |
| 9751 | *Invalid owner* |
| 9752 | *Error writing cache* |
| 9753 | *Invalid interface* |
| 9754 | *Variable page error* |
| 9755 | *Autoincrement error* |
| 9756 | *Incomplete index* |
| 9757 | *Expanded memory error* |
| 9758 | *Compression buffer too short* |
| 9759 | *File already exists* |
| 9760 | *Reject count reached* |
| 9761 | *Work space too small* |
| 9762 | *Incorrect descriptor* |
| 9763 | *Invalid extended insert buffer* |
| 9764 | *Filter limit reached* |
| 9765 | *Incorrect field offset* |
| 9766 | *UNKNOWN BTRIEVE ERROR* |
| 9767 | *UNKNOWN BTRIEVE ERROR* |
| 9768 | *UNKNOWN BTRIEVE ERROR* |

| No. | Description |
|---|---|
| 9719 | *Unrecoverable error* |
| 9720 | *Record manager inactive* |
| 9721 | *Key buffer too short* |
| 9722 | *Data buffer length* |
| 9723 | *Position block length* |
| 9724 | *Page size error* |
| 9725 | *Create I/O error* |
| 9726 | *Number of keys* |
| 9727 | *Invalid key position* |
| 9728 | *Invalid record length* |
| 9729 | *Invalid key length* |
| 9730 | *Not a BTRIEVE file* |
| 9731 | *File already extended* |
| 9732 | *Extended I/O error* |
| 9733 | *UNKNOWN BTRIEVE ERROR* |
| 9734 | *Invalid extension name* |
| 9735 | *Directory error* |
| 9736 | *Transaction error* |
| 9737 | *Transaction is active* |
| 9738 | *Transaction control file I/O error* |
| 9739 | *End/abort transaction error* |
| 9740 | *Transaction max files* |
| 9741 | *Operation not allowed* |
| 9742 | *Incomplete accelerated acces* |
| 9743 | *Invalid record address* |
| 9744 | *Null key path* |
| 9745 | *Inconsistent key flags* |
| 9746 | *Access to file denied* |
| 9747 | *Maximum open files* |
| 9748 | *Invalid alternate sequence definition* |
| 9749 | *Key type error* |

| No. | Description |
|---|---|
| 9769 | *UNKNOWN BTRIEVE ERROR* |
| 9770 | *UNKNOWN BTRIEVE ERROR* |
| 9771 | *UNKNOWN BTRIEVE ERROR* |
| 9772 | *UNKNOWN BTRIEVE ERROR* |
| 9773 | *UNKNOWN BTRIEVE ERROR* |
| 9774 | *Automatic transaction abort* |
| 9775 | *UNKNOWN BTRIEVE ERROR* |
| 9776 | *UNKNOWN BTRIEVE ERROR* |
| 9777 | *UNKNOWN BTRIEVE ERROR* |
| 9778 | *Deadlock detected* |
| 9779 | *UNKNOWN BTRIEVE ERROR* |
| 9780 | *Conflict* |
| 9781 | *Lock error* |
| 9782 | *Lost position* |
| 9783 | *Read outside transaction* |
| 9784 | *Record disabled* |
| 9785 | *File disabled* |
| 9786 | *File table full* |
| 9787 | *Handle table full* |
| 9788 | *Incompatible mode error* |
| 9789 | *UNKNOWN BTRIEVE ERROR* |
| 9790 | *Redirected device table full* |
| 9791 | *Server error* |
| 9792 | *Transaction table full* |
| 9793 | *Incompatible lock type* |
| 9794 | *Permission error* |
| 9795 | *Session no longer valid* |
| 9796 | *Communications environment error* |
| 9797 | *Data message too small* |
| 9798 | *Internal Transaction error* |
| 9799 bis 9899 | *UNKNOWN BTRIEVE ERROR* |

## 8.2 Corresponding Messages in German

| No. | Description |
|---|---|
| 2350 | *Fataler Fehler! Das Interface zur dynamischen Anbindung des IEC - Bustreibers [IEC_NIEC.DLL] konnte nicht gefunden werden!* |
| 2351 | *IEC - Bustreiber [GPIB.DLL] nicht gefunden. Eine Kommunikation über den IEC - Bus ist daher nicht möglich !* |
| 2352 | *Fataler Fehler beim Laden der dynamischen IEC - Bustreiber Anbindung !* |
| 2353 | *Dynamische Anbindung des IEC - Bustreibers fehlerhaft. Funktion(en) nicht gefunden !* |
| 2354 | *Interner Fehler bei dynamischer IEC - Bustreiber Anbindung. Aufruf einer nicht vorhandenen Funktion.* |
| 6000 | *Wollen Sie diesen Datensatz löschen ?* |
| 6002 | *Um die Aktion auszuführen wird das Meßgerät automatisch gestoppt. Wollen Sie fortsetzen ?* |
| 6003 | *Ein Datensatz unter diesem Namen existiert bereits ! Soll der Datensatz überschrieben werden? (Ja /Nein)* |
| 6004 | |
| 6021 | *Bitte Stecker BU6 /BU7 stecken !* |
| 6022 | *Bitte Stecker BU6 /BU7 ziehen !* |
| 9000 | *Stringtable* |
| 9001 | *Device context* |
| 9002 | *Bitmap* |
| 9003 | *Memory context* |
| 9004 | *Object* |
| 9005 | *Built* |
| 9006 | *Dialog* |
| 9007 | *GObj* |
| 9008 | *DIB* |
| 9009 | *Text* |
| 9010 | *CONTROL failed* |
| 9011 | *DEVICE context* |
| 9012 | *ITEM failed* |
| 9013 | *No SPACE in Item list* |
| 9014 | *Es wurde kein Meßgerät K1403 am IEC - Bus gefunden.* |
| 9015 | *Meßart nicht definiert* |
| 9016 | *Das Zeichen '@' ist in einem Datensatznamen nicht erlaubt.* |
| 9017 | *Eingabefehler, Formatfehler* |
| 9018 | *Eingabe fehlt* |
| 9019 | *Wertebereich überschritten* |
| 9020 | *Maximalanzahl von Messungen erreicht* |
| 9021 | *TIMER1 Fehler* |
| 9022 | *Kein Speicher - Keine Messergebnisse im Clipboard* |
| 9023 | *MicroSoft WinWord nicht gefunden !* |
| 9024 | *Bitte stellen Sie am K1403 eine Messung und keine Leitungsnachbildung ein.* |
| 9025 | *Bitte stellen Sie am K1403 eine Leitungsnachbildung ein.* |

| No. | Description |
|---|---|
| 9362 | *Messung ungültig* |
| 9363 | *Referenztakt ungültig* |
| 9364 | *Meßbereich ungültig* |
| 9365 | *Jitterbereich ungültig* |
| 9366 | *Jittergenerator ungültig* |
| 9367 | *TEI_ASSIGN ungültig* |
| 9368 | *MESSUNG ungültig* |
| 9369 | *TESTMODE ungültig* |
| 9600 | *GPIB.INI File Konfigurierungsfehler* |
| 9601 | *Funktion verlangt GPIB-Board mit CIC-Status* |
| 9602 | *Handshake-Fehler (z. Bsp.: Kein Hörer)* |
| 9603 | *GPIB-Board falsch adressiert* |
| 9604 | *Ungültiges Argument bei Funktions-Aufruf* |
| 9605 | *GPIB-Board ist nicht Systemkontroller* |
| 9606 | *I/O-Operation abgebrochen (timeout)* |
| 9607 | *Kein GPIB-Board existent* |
| 9610 | *Asynchrones I/O noch nicht beendet* |
| 9611 | *IBCONF-Konfiguration läßt Operation nicht zu* |
| 9612 | *Filesystem-Fehler* |
| 9614 | *GPIB-Busfehler* |
| 9615 | *Seriel-Poll-Statusbyte-Queueüberlauf* |
| 9616 | *SRQ-Leitung ist gesetzt* |
| 9620 | *Tabellen-Problem (z. Bsp: zuviele Listener)* |
| 9640 | *Zeitlimit bei Iec-Query überschritten* |
| 9641 | *Gerät nicht initialisiert* |
| 9642 | *IEC-Kommando-Fehler (ESR-Register)* |
| 9643 | *Zeitlimit bei TAV überschritten* |
| 9644 | *Messablauf unbekannt* |
| 9646 | *Spannung kann nicht eingestellt werden* |
| 9647 | *Spannung ist abgeschaltet worden* |
| 9648 | *Temperatur auf dem Leistungsteil der Speisebedingung zu hoch* |
| 9649 | *Aufgetretenes Fehlverhalten der Speisebedingung* |
| 9650 | *Messung abgebrochen* |
| 9651 | *Kommunikationsfehler der Komponenten im Gerät* |
| 9652 | *Fremdspannung an den Messbuchsen Bu6 bzw. Bu7 entdeckt* |
| 9653 | *Kalibrierung der Leitungsnachbildung abgebrochen* |
| 9654 | *Eine bestehende Schicht 1 Verbindung ist unterbrochen ( Funktionale Tests )* |

| No. | Description |
|---|---|
| 9026 | *Zum Übernehmen der Test Suite Parameter stellen Sie bitte TTCN - Tests ein* |
| 9028 | *Der Conformance Tester erwartet eine K1403 Version %d.%d. Da Sie die Meßgeräteversion %d.%d benutzen, kann es zu Problemen wäh-rend der IEC - Bus Kommunikation kommen.* |
| 9029 | *%u K1403 Hardcopy Versuch(e) fehlgeschlagen ! Drucker nicht bereit ?* |
| 9040 | *Schwerer Fehler beim Laden von K1403_B2.DLL!* |
| 9041 | *Geladene Sofwareerweiterung K1403_B2.DLL ist fehlerhaft !* |
| 9042 | *Die Softwareerweiterung für TTCN Tests Appendix B2 wurde geladen, das Meßgerät kann TTCN Tests Appendix B2 jedoch nicht verarbeiten !* |
| 9043 | *Meßart ungültig* |
| 9044 | *Das Meßgerät kann TTCN Tests Appendix B2 nicht verarbeiten !* |
| 9050 | *Der Textausgabepuffer ist zu klein um alle Textausgaben anzuzeigen. Die kompletten Meßergebnisse befinden sich in der temporären Ergebnisdatei !* |
| 9051 | *Fehler beim Schreiben der Datei %s ! Folgende Meßergebnisse können nicht in %s gesichert werden.* |
| 9053 | *Die Ausgabedatei %s befindet sich in Arbeit. Um fortzufahren beenden Sie das Programm welches %s bearbeitet.* |
| 9054 | *Die Ausgabedatei %s kann nicht initialisiert werden. Eventuell ist %s schreibgeschützt.* |
| 9060 | *Interner Datenkonvertierungsfehler !* |
| 9061 | *Datensatzversion inkompatibel !* |
| 9145 | *Hardware für Leitungsnachbildung fehlt* |
| 9146 | *Erlaubte IEEE - Busadresse: 1 ... 31 oder keine Eingabe um ein Gerät am Bus zu suchen.* |
| 9147 | *Unter der angegeben Adresse befindet sich kein Meßgerät K1403 am IEC - Bus.* |
| 9148 | *Die Verbindung zum Meßgerät K1403 wurde unterbrochen .* |
| 9149 | *Das Meßgerät kann eine Leitungsnachbildung Konfig.3b nicht verarbeiten.* |
| 9150 | *Jitter Option fehlt !* |
| 9200 | *Ungültiger Dateiname* |
| 9201 | *Ungültiger Dateiparameter* |
| 9202 | *Ungültige Meßeinstellungsdatei* |
| 9203 | *Maximale Satzanzahl erreicht* |
| 9204 | *Ungültige Datei* |
| 9205 | *Ungültige Datei beim Sichern* |
| 9206 | *Ungültige Datei beim Kopieren* |
| 9207 | *Ungültige Datei beim Löschen* |
| 9208 | *Schlüssel bereits vorhanden* |
| 9209 | *Ungültiger neuer Pfad* |
| 9210 | *Ungültige Partition* |
| 9211 | *Pfad nicht eingerichtet* |
| 9212 | *Ungültige Datei bei Existenzprüfung* |
| 9213 | *Norm-Meßeinstellungsdatei nicht gefunden* |

| No. | Description |
|---|---|
| 9655 | *Messung beendet ( Funktionale Tests )* |
| 9656 | *Neues Intervall - Messung wird beendet ( Funktionale Tests )* |
| 9700 | *UNBEKANNTER DATENBANKFEHLER* |
| 9701 | *Ungültiger Befehl* |
| 9702 | *Schreib- / Lesefehler* |
| 9703 | *Datei nicht geöffnet* |
| 9704 | *Schlüssel nicht gefunden* |
| 9705 | *Eindeutiger Schlüsselname zweimal vergeben* |
| 9706 | *Ungültige Schlüsselnummer* |
| 9707 | *Unterschiedliche geänderte Schlüsselnummer* |
| 9708 | *Ungültige Positionierung* |
| 9709 | *Dateianfang / -ende erreicht* |
| 9710 | *Schlüssel nicht änderbar* |
| 9711 | *Ungültiger Dateiname* |
| 9712 | *Datei nicht gefunden* |
| 9713 | *Fehler in erweiterter Datei* |
| 9714 | *Fehler beim Öffnen der Sicherungsdatei im Hintergrund* |
| 9715 | *Sicherungsdatei Schreib- / Lesefehler* |
| 9716 | *Fehler bei Partitionserweiterung* |
| 9717 | *Fehler beim Schließen der Datei* |
| 9718 | *Kein freier Speicher auf Festplattenpartition* |
| 9719 | *Nicht behebbarer Dateifehler Daten in Datei z e r s t ö r t !* |
| 9720 | *Datenbank Manager nicht gestartet* |
| 9721 | *Schlüsselpuffer zu klein* |
| 9722 | *Datenpuffer zu klein* |
| 9723 | *Ungültige Länge des Positionsblocks* |
| 9724 | *Ungültige Datenseitengröße (512, 1024, .. 4096 Bytes zulässig)* |
| 9725 | *Fehler beim Anlegen der Datei* |
| 9726 | *Ungültige Schlüsselanzahl* |
| 9727 | *Ungültige Schlüsselposition* |
| 9728 | *Ungültige Datensatzlänge* |
| 9729 | *Ungültige Schlüssellänge* |
| 9730 | *Datei ist keine Datenbankdatei* |
| 9731 | *Datei bereits erweitert* |

| No. | Description |
|---|---|
| 9214 | *Datensatz beim Laden nicht gefunden* |
| 9215 | *Datensatz beim Sichern nicht gefunden* |
| 9216 | *Gesuchte Datei nicht gefunden* |
| 9217 | *Ungültige Schlüsselnummer* |
| 9218 | *Datei konnte nicht gelöscht werden* |
| 9219 | *FATALER FEHLER: Maximale Datensatzlänge überschritten* |
| 9220 | *FATALER FEHLER: Unterschiedliche Datensatzlängen* |
| 9300 | *Leitungspaar ungültig* |
| 9301 | *Speisung ungültig* |
| 9302 | *1. Editwert ungültig* |
| 9303 | *Frequenzbereich ungültig* |
| 9304 | *2. Editwert ungültig* |
| 9305 | *3. Editwert ungültig* |
| 9306 | *Sendepegel ungültig* |
| 9307 | *4. Editwert ungültig* |
| 9308 | *Toleranzmaske ungültig* |
| 9309 | *Meßtyp ungültig* |
| 9310 | *Meßaufbau ungültig* |
| 9311 | *Meßgruppe ungültig* |
| 9312 | *Meßart ungültig* |
| 9313 | *Telegrammformat ungültig* |
| 9314 | *Testimpuls ungültig* |
| 9315 | *Last ungültig* |
| 9316 | *Senderahmen ungültig* |
| 9317 | *Torzeit ungültig* |
| 9318 | *Takt ungültig* |
| 9319 | *Filter ungültig* |
| 9320 | *Strom ungültig* |
| 9321 | *Kommando ungültig* |
| 9322 | *Meßbereich ungültig* |
| 9323 | *Meßdauer ungültig* |
| 9324 | *Unterbrechungsart ungültig* |
| 9325 | *Zustand ungültig* |
| 9326 | *Teststart ungültig* |
| 9327 | *Quelle ungültig* |
| 9328 | *5. Editwert ungültig* |
| 9329 | *Leitungskonfiguration ungültig* |
| 9330 | *K1403 an ungültig* |
| 9331 | *Leitungslänge ungültig* |
| 9332 | *TR-nah ungültig* |
| 9333 | *TR-fern ungültig* |
| 9334 | *Störfrequenz ungültig* |
| 9335 | *Stördistanz ungültig* |
| 9336 | *Störtyp ungültig* |
| 9337 | *TE-Anzahl ungültig* |
| 9338 | *TE-Konfiguration ungültig* |
| 9339 | *RX-direkt ungültig* |
| 9340 | *Kalibrierung ungültig* |
| 9341 | *Daten-Parameter ungültig* |
| 9342 | *PRBS ungültig* |
| 9343 | *Kanalauswahl ungültig* |

| No. | Description |
|---|---|
| 9732 | *Fehler bei Dateierweiterung* |
| 9733 | *UNBEKANNTER DATENBANKFEHLER* |
| 9734 | *Ungültiger Dateiname für Partitionserweiterung* |
| 9735 | *Fehler bei Pfadangabe* |
| 9736 | *Fehler bei Summenkommando* |
| 9737 | *Summenkommando noch aktiv* |
| 9738 | *Schreib- / Lesefehler im Summenkommando-Kontrollfile* |
| 9739 | *Summenkommando bereits beendet* |
| 9740 | *Maximale Dateianzahl im Summenkommando erreicht* |
| 9741 | *Befehl zu diesem Zeitpunkt nicht erlaubt* |
| 9742 | *Fehler bei Dateizugriff im beschleunigten Modus* |
| 9743 | *Ungültige Datensatzadresse* |
| 9744 | *Schlüsselwert ist NULL* |
| 9745 | *Schlüsselattribute inkonsistent* |
| 9746 | *Dateizugriff nicht zulässig* |
| 9747 | *Maximale Anzahl offener Dateien erreicht* |
| 9748 | *Ungültige alternative Sortierdefinition* |
| 9749 | *Schlüsseltypfehler* |
| 9750 | *Benutzer bereits vergeben* |
| 9751 | *Ungültiger Benutzer* |
| 9752 | *Schreibfehler im Cachepuffer* |
| 9753 | *Ungültige Datenbankschnittstelle* |
| 9754 | *Lesefehler in Datenseite bei variabler Datensatzlänge* |
| 9755 | *Fehler bei Aufzählungsschlüsseltyp* |
| 9756 | *Fehler bei nachträglich eingefügtem Schlüssel* |
| 9757 | *Fehler im erweiterten Speicherbereich* |
| 9758 | *Puffer für Datenkomprimierung zu klein* |
| 9759 | *Datei existiert bereits* |
| 9760 | *Gewünschte Datensatzanzahl erreicht* |
| 9761 | *Arbeitsspeicher zu klein* |
| 9762 | *Datenpufferdeskriptor ungültig* |
| 9763 | *Ungültiger Puffer für erweitertes Einfügekommando* |
| 9764 | *Filtergrenze erreicht* |
| 9765 | *Ungültiger Wert für Feldoffset* |
| 9766 | *UNBEKANNTER DATENBANKFEHLER* |
| 9767 | *UNBEKANNTER DATENBANKFEHLER* |
| 9768 | *UNBEKANNTER DATENBANKFEHLER* |
| 9769 | *UNBEKANNTER DATENBANKFEHLER* |
| 9770 | *UNBEKANNTER DATENBANKFEHLER* |
| 9771 | *UNBEKANNTER DATENBANKFEHLER* |
| 9772 | *UNBEKANNTER DATENBANKFEHLER* |
| 9773 | *UNBEKANNTER DATENBANKFEHLER* |
| 9774 | *Automatischer Abbruch des Summenkommandos* |
| 9775 | *UNBEKANNTER DATENBANKFEHLER* |
| 9776 | *UNBEKANNTER DATENBANKFEHLER* |
| 9777 | *UNBEKANNTER DATENBANKFEHLER* |
| 9778 | *Fataler Verriegelungszustandsfehler erkannt* |
| 9779 | *UNBEKANNTER DATENBANKFEHLER* |
| 9780 | *Datensatzkonflikt durch mehrfachen Zugriff* |
| 9781 | *Verriegelungsfehler* |
| 9782 | *Positionierung in Datei nicht mehr gültig* |

| No. | Description |
|---|---|
| 9344 | *Mode-Parameter ungültig* |
| 9345 | *Zustand Fx-Parameter ungültig* |
| 9346 | *Abtastrate-Parameter ungültig* |
| 9347 | *Triggergradient-Parameter ungültig* |
| 9348 | *Triggerflanke-Parameter ungültig* |
| 9349 | *Test Info ungültig* |
| 9350 | *Kanalauswahl ungültig* |
| 9351 | *PRBS ungültig* |
| 9352 | *Daten ungültig* |
| 9353 | *Speisung ungültig* |
| 9354 | *Aktivierung ungültig* |
| 9355 | *Kanalauswahl ungültig* |
| 9356 | *PRBS ungültig* |
| 9357 | *Testmode ungültig* |
| 9358 | *Übertragungsart ungültig* |
| 9359 | *Analysebereich ungültig* |
| 9360 | *untere Grenzfrequenz ungültig* |
| 9361 | *obere Grenzfrequenz ungültig* |

| No. | Description |
|---|---|
| 9783 | *Ungültiger Datensatzzugriff innerhalb eines Summenkommandos* |
| 9784 | *Datensatz verriegelt* |
| 9785 | *Datei verriegelt* |
| 9786 | *Maximale Anzahl offener Dateien erreicht* |
| 9787 | *Maximale Anzahl offener Dateien im Netzwerk erreicht* |
| 9788 | *Ungültiger Modus beim Öffnen der datei* |
| 9789 | *UNBEKANNTER DATENBANKFEHLER* |
| 9790 | *Gerätetabelle der zusätzlich aufgenommenen Geräte ist voll* |
| 9791 | *Netzwerkfehler* |
| 9792 | *Maximale Anzahl der aktiven Summenkommandos erreicht* |
| 9793 | *Ungültiger Verriegelungsmodus* |
| 9794 | *Zugriffsberechtigungsfehler* |
| 9795 | *Netzwerksitzung nicht mehr gültig* |
| 9796 | *Fehler in Netzwerkkommunikation* |
| 9797 | *Fehler in Datensendung des Netzwerkes* |
| 9798 | *Interner Summenkommandofehler* |
| 9799 thr. | *UNBEKANNTER DATENBANKFEHLER* |
| 9899 | *UNBEKANNTER DATENBANKFEHLER* |

# 9 Appendix

## 9.1 Protocol example

TEST & CHECK QS Jones
DEMO DEMO-Telephone 2. August 1994

## SIEMENS K1403 Measurement Protocol

With kind support from WinWord ™

The title page can be freely designed.

Please note, however, that the table (e.g. at the end of this document) contains bookmarks which are absolutely required for inserting the variable parts.

Furthermore, font, font size and column width within the table are adjusted to suit the space available in the editing field "Description of measured object" in the conformance tester. This is important only if automatic line breaks are to occur at the same text position within the editing field "Description of measured object" and the corresponding column in the table.

**ATTENTION:** The following character sets are set by the program directly via styles (the style names are displayed in [ .. ]) and must be available:

| | |
|---|---|
| Courier 10 | Screen shots for start-up test, TTCN test, TTCN trace etc. [ScreenDataFormat, TraceDataFormat] |
| Arial 10 | Table formats for numerical values or also, left-aligned, TTCN individual test results [TabellenFormat, TabellenFormatLinks] |
| MS Line Draw 10 | Semi-graphic lines for binary frame organisation [SemigrafikDataFormat] |
| Courier New 10 | Text lines between semi-graphic lines for binary frame organisation [SemigrafikTextFormat] |

The following character sets correspond to WinWord ™ stipulations:

Times New Roman 10 Header and footer or style ' standard '.

If you change the styles, please note that for example SemigrafikDataFormat [MS Line Draw 10] and SemigrafikTextFormat [Courier New 10] correspond to each other. If this correspondence is lost, the legend (text line) no longer fits under the graphic chart (the semi-graphic line) and appears either too short or too long relative to the chart.

| | |
|---|---|
| Name of company: | TEST & Check |
| Name of test sequence: | DEMO |
| Name of operator: | Jones |
| Organisation unit: | QS |
| Version number of measurement device: | SIEMENS,7KK1403,101210101010--2010.30212531**10--**2626 |
| Name of measured object: | DEMO Telephone |
| Description of measured object: | ISDN Telephone CALL&Ring; Type 08/15 |

Test sequence for the demonstration of the PC-Remote Control Software

## 1. DEMO_01

MEAS 0,0,2>2,1,160,1,0,0,0,0

Pulse shape measurement at the F/L-Bit of INFO3 with B1=B2=D="1"

1. Test step

Conformance not required

| Time [µsec] | Voltage [mV] | Time [µsec] | Voltage [mV] |
|---|---|---|---|
| -2.60417e-06 | -0.00327552 | 5.1777e-06 | 0.0217762 |
| -2.54289e-06 | -0.00231199 | 5.23897e-06 | -0.122271 |
| -2.48162e-06 | -0.00134846 | 5.30025e-06 | -0.324612 |
| -2.42034e-06 | 0.00443271 | 5.36152e-06 | -0.610298 |
| -2.35907e-06 | 0.00202389 | 5.42279e-06 | -0.700388 |
| -2.29779e-06 | 0.00371007 | 5.48407e-06 | -0.719418 |
| -2.23652e-06 | 0.00455315 | 5.54534e-06 | -0.738448 |
| -2.17525e-06 | 0.00539624 | 5.60662e-06 | -0.753864 |
| -2.11397e-06 | 0.00154213 | 5.66789e-06 | -0.755791 |
| -2.0527e-06 | 0.000819481 | 5.72917e-06 | -0.753864 |
| -1.99142e-06 | 9.68346e-05 | 5.79044e-06 | -0.750974 |
| -1.93015e-06 | 9.68346e-05 | 5.85172e-06 | -0.752901 |
| -1.86887e-06 | 0.00106036 | 5.91299e-06 | -0.759164 |
| -1.8076e-06 | 0.0106956 | 5.97426e-06 | -0.759645 |
| -1.74632e-06 | 0.00395095 | 6.03554e-06 | -0.759164 |
| -1.68505e-06 | 0.00202389 | 6.09681e-06 | -0.752901 |
| -1.62377e-06 | 0.000578599 | 6.15809e-06 | -0.759164 |
| -1.5625e-06 | 0.000578599 | 6.21936e-06 | -0.757718 |
| -1.50123e-06 | 0.000578599 | 6.28064e-06 | -0.760609 |
| -1.43995e-06 | 0.00635977 | 6.34191e-06 | -0.760127 |
| -1.37868e-06 | 0.00443271 | 6.40319e-06 | -0.759886 |
| -1.3174e-06 | 0.00298742 | 6.46446e-06 | -0.759645 |
| -1.25613e-06 | 0.00539624 | 6.52574e-06 | -0.759164 |
| -1.19485e-06 | 9.68346e-05 | 6.58701e-06 | -0.754828 |
| -1.13358e-06 | 0.00106036 | 6.64828e-06 | -0.755791 |
| -1.0723e-06 | 0.00202389 | 6.70956e-06 | -0.756755 |
| -1.01103e-06 | 0.00154213 | 6.77083e-06 | -0.759645 |
| -9.49755e-07 | 0.00876859 | 6.83211e-06 | -0.754828 |
| -8.8848e-07 | 0.00395095 | 6.89338e-06 | -0.753382 |
| -8.27206e-07 | 0.00154213 | 6.95466e-06 | -0.754828 |
| -7.65931e-07 | 0.00443271 | 7.01593e-06 | -0.752419 |
| -7.04657e-07 | 0.00828683 | 7.07721e-06 | -0.747119 |
| -6.43382e-07 | 0.00515536 | 7.13848e-06 | -0.753864 |
| -5.82108e-07 | 0.00202389 | 7.19976e-06 | -0.750492 |
| -5.20833e-07 | 0.00684153 | 7.26103e-06 | -0.753382 |
| -4.59559e-07 | 0.0073233 | 7.3223e-06 | -0.755069 |
| -3.98284e-07 | 0.00539624 | 7.38358e-06 | -0.756755 |
| -3.3701e-07 | 0.00346918 | 7.44485e-06 | -0.755309 |
| -2.75735e-07 | 0.00250566 | 7.50613e-06 | -0.751455 |
| -2.14461e-07 | 0.0535727 | 7.5674e-06 | -0.75001 |
| -1.53186e-07 | 0.10464 | 7.62868e-06 | -0.749047 |
| -9.19117e-08 | 0.00106036 | 7.68995e-06 | -0.753864 |
| -3.0637e-08 | 0.0131045 | 7.75123e-06 | -0.749047 |

| | | | |
|---|---|---|---|
| 3.06375e-08 | 0.0882597 | 7.8125e-06 | -0.754346 |
| 9.19119e-08 | 0.0921138 | 7.87378e-06 | -0.747601 |
| 1.53186e-07 | 0.266031 | 7.93505e-06 | -0.752419 |
| 2.14461e-07 | 0.505468 | 7.99632e-06 | -0.754346 |
| 2.75735e-07 | 0.596039 | 8.0576e-06 | -0.754346 |
| 3.3701e-07 | 0.686611 | 8.11887e-06 | -0.753382 |
| 3.98285e-07 | 0.723225 | 8.18015e-06 | -0.753864 |
| 4.59559e-07 | 0.745386 | 8.24142e-06 | -0.75266 |
| 5.20834e-07 | 0.749722 | 8.3027e-06 | -0.751455 |
| 5.82108e-07 | 0.751649 | 8.36397e-06 | -0.748324 |
| 6.43382e-07 | 0.750204 | 8.42525e-06 | -0.745192 |
| 7.04657e-07 | 0.751649 | 8.48652e-06 | -0.750492 |
| 7.65932e-07 | 0.753094 | 8.5478e-06 | -0.754828 |
| 8.27206e-07 | 0.751167 | 8.60907e-06 | -0.760127 |
| 8.88481e-07 | 0.751649 | 8.67034e-06 | -0.748565 |
| 9.49755e-07 | 0.751167 | 8.73162e-06 | -0.749047 |
| 1.01103e-06 | 0.75454 | 8.79289e-06 | -0.749528 |
| 1.0723e-06 | 0.748758 | 8.85417e-06 | -0.750492 |
| 1.13358e-06 | 0.749722 | 8.91544e-06 | -0.752901 |
| 1.19485e-06 | 0.751167 | 8.97672e-06 | -0.751455 |
| 1.25613e-06 | 0.752613 | 9.03799e-06 | -0.759645 |
| 1.3174e-06 | 0.753094 | 9.09927e-06 | -0.752901 |
| 1.37868e-06 | 0.75454 | 9.16054e-06 | -0.752419 |
| 1.43995e-06 | 0.756948 | 9.22182e-06 | -0.751215 |
| 1.50123e-06 | 0.74635 | 9.28309e-06 | -0.75001 |
| 1.5625e-06 | 0.746831 | 9.34436e-06 | -0.748565 |
| 1.62377e-06 | 0.74924 | 9.40564e-06 | -0.75001 |
| 1.68505e-06 | 0.748758 | 9.46691e-06 | -0.751455 |
| 1.74632e-06 | 0.745386 | 9.52819e-06 | -0.75001 |
| 1.8076e-06 | 0.745868 | 9.58946e-06 | -0.75001 |
| 1.86887e-06 | 0.748277 | 9.65074e-06 | -0.752901 |
| 1.93015e-06 | 0.740568 | 9.71201e-06 | -0.754346 |
| 1.99142e-06 | 0.740087 | 9.77329e-06 | -0.755791 |
| 2.0527e-06 | 0.742496 | 9.83456e-06 | -0.749047 |
| 2.11397e-06 | 0.745868 | 9.89583e-06 | -0.75001 |
| 2.17525e-06 | 0.745145 | 9.95711e-06 | -0.75001 |
| 2.23652e-06 | 0.744423 | 1.00184e-05 | -0.751455 |
| 2.29779e-06 | 0.740568 | 1.00797e-05 | -0.749528 |
| 2.35907e-06 | 0.74105 | 1.01409e-05 | -0.747601 |
| 2.42034e-06 | 0.741532 | 1.02022e-05 | -0.745674 |
| 2.48162e-06 | 0.744423 | 1.02635e-05 | -0.128052 |
| 2.54289e-06 | 0.743459 | 1.03248e-05 | 0.0280392 |
| 2.60417e-06 | 0.742977 | 1.0386e-05 | -0.00134846 |
| 2.66544e-06 | 0.74105 | 1.04473e-05 | -0.00423904 |
| 2.72672e-06 | 0.739364 | 1.05086e-05 | -0.00134846 |
| 2.78799e-06 | 0.737678 | 1.05699e-05 | 9.68346e-05 |
| 2.84927e-06 | 0.737678 | 1.06311e-05 | -0.000625812 |
| 2.91054e-06 | 0.743459 | 1.06924e-05 | -0.00134846 |
| 2.97181e-06 | 0.744423 | 1.07537e-05 | -0.00038493 |
| 3.03309e-06 | 0.744904 | 1.0815e-05 | -0.00375728 |
| 3.09436e-06 | 0.74635 | 1.08762e-05 | -0.00231199 |
| 3.15564e-06 | 0.743941 | 1.09375e-05 | 0.00250566 |
| 3.21691e-06 | 0.741532 | 1.09988e-05 | -0.00038493 |
| 3.27819e-06 | 0.739605 | 1.10601e-05 | -0.000144048 |
| 3.33946e-06 | 0.740568 | 1.11213e-05 | 9.68346e-05 |
| 3.40074e-06 | 0.742977 | 1.11826e-05 | 0.00250566 |
| 3.46201e-06 | 0.740087 | 1.12439e-05 | -0.00134846 |

| | | | |
|---|---|---|---|
| 3.52328e-06 | 0.741532 | 1.13051e-05 | -0.000866694 |
| 3.58456e-06 | 0.740087 | 1.13664e-05 | -0.00134846 |
| 3.64583e-06 | 0.74105 | 1.14277e-05 | 0.000578599 |
| 3.70711e-06 | 0.742014 | 1.1489e-05 | 0.00106036 |
| 3.76838e-06 | 0.744904 | 1.15502e-05 | 0.00106036 |
| 3.82966e-06 | 0.739605 | 1.16115e-05 | 0.00106036 |
| 3.89093e-06 | 0.740087 | 1.16728e-05 | 9.68346e-05 |
| 3.95221e-06 | 0.743941 | 1.17341e-05 | -0.00472081 |
| 4.01348e-06 | 0.742977 | 1.17953e-05 | -0.00134846 |
| 4.07476e-06 | 0.740809 | 1.18566e-05 | 9.68346e-05 |
| 4.13603e-06 | 0.738641 | 1.19179e-05 | 0.00154213 |
| 4.1973e-06 | 0.738641 | 1.19792e-05 | 9.68346e-05 |
| 4.25858e-06 | 0.743941 | 1.20404e-05 | -0.00134846 |
| 4.31985e-06 | 0.745386 | 1.21017e-05 | 0.00106036 |
| 4.38113e-06 | 0.745386 | 1.2163e-05 | -0.00375728 |
| 4.4424e-06 | 0.739123 | 1.22243e-05 | 0.00106036 |
| 4.50368e-06 | 0.735751 | 1.22855e-05 | 0.00106036 |
| 4.56495e-06 | 0.739364 | 1.23468e-05 | -0.00134846 |
| 4.62623e-06 | 0.742977 | 1.24081e-05 | -0.000866694 |
| 4.6875e-06 | 0.74105 | 1.24694e-05 | -0.000866694 |
| 4.74877e-06 | 0.74105 | 1.25306e-05 | -0.000866694 |
| 4.81005e-06 | 0.739123 | 1.25919e-05 | -0.000866694 |
| 4.87132e-06 | 0.742977 | 1.26532e-05 | -0.00134846 |
| 4.9326e-06 | 0.741532 | 1.27145e-05 | 0.000578599 |
| 4.99387e-06 | 0.742736 | 1.27757e-05 | 0.00298742 |
| 5.05515e-06 | 0.743941 | 1.2837e-05 | 9.68346e-05 |
| 5.11642e-06 | 0.733342 | 1.28983e-05 | 0.00106036 |

Measurement completed. Specified number TAVs received.

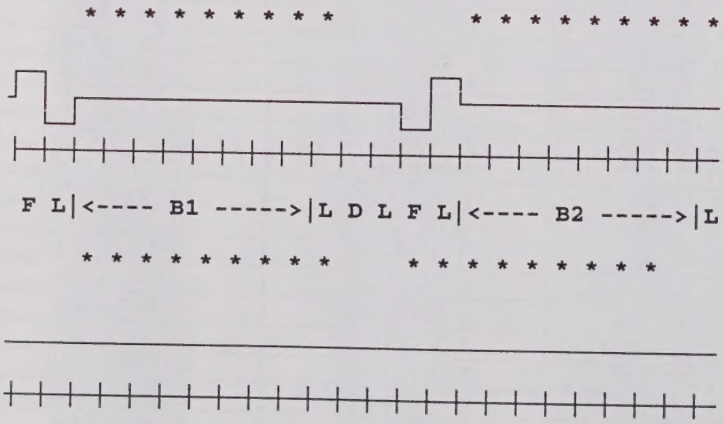
## 2. DEMO_02

MEAS 0,1,1>0,1,160,0,0,0,0,0

Frame setup INFO3 with B channel loop

2. Test step

Conformance FAILED




SIEMENS,7KK1403,101210101010--2010.30212531**10--**2626

```
D L|<---- B1 ----->|L D L|<---- B2 ----->|L D L
```

**IUT: not conform**

Measurement completed. Specified number of TAVs received.

## 3. DEMO_03

MEAS 0,1,2>2,0,0,1,160,5,1,0,0,0,0,30000,0,5,0,2,3,0,0,1000,100,100

TTCN-Timer test with test suite parameter DEMO_TE

3. Test step

| Test name | Start Test | Conformance |
|---|---|---|
| TIF7compdeact1 | 1994-04-30 14:19:25 | INCONCLUSIVE |

```
F3info2
F3info2_inv
F3info4
F4info2
F4info4
F4infoX
timerT3
F6physdeact
F7physdeact
F7compdeact1     I
F7compdeact2
F8compdeact1
F8compdeact2

                                                    I
```

Measurement completed. Specified number of TAVs received.

## 4. DEMO_04

MEAS 0,2,0>0,0,160,0,1,10,30,0,0,0

Supply test power consumption; level 1 not activated.

4. Test step

| | | |
|---|---|---|
| Pava = 8.117e-02 W | Pmin = 7.463e-02 W | Pmax = 1.577e-01 W |
| Iava = 2.028e-03 A | Imin = 1.865e-03 A | Imax = 3.941e-03 A |
| U= 40.018200 V | | |

Measurement completed. Specified number of TAVs received.